

SEQUENCE LISTING

<110> Craig Rosen,
Steve Ruben

<120> Human Pancreas and Pancreatic Cancer Associated Gene Sequences and
Polypeptides

<130> PA105PCT

<140> Unassigned

<141> 2000-03-08

<150> 60/124,270

<151> 1999-03-12

<160> 928

<170> PatentIn Ver. 2.0

<210> 1

<211> 565

<212> DNA

<213> Homo sapiens

<400> 1

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ggttttcatt atgctattga tkttaaaagt aaaaatttgg gaaagaacct ccatgtccac 240
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ctactgattt ccttgtagat attttgaaac agataagaaa ctctccgtg gaaattactg 480
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<210> 2

<211> 1691

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (1093)

<223> n equals a,t,g, or c

<400> 2

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cgtgtatact tccttcatga agtctcatcg ctgctatgac ctgattccca caagctccaa 180
attggttgta tttgatacgt ccctgcagggt gaagaaagct ttttttgctt tggtgactaa 240
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tgagctagaa gaacacaaga tagaaacttg gagagaggtg tatctccagg actcctttaa 420
accgcttgtc tgcatttctc ctaatgccag cttgtttgat gctgtctctt cattaattcg 480
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<211> 480

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (471)

<223> n equals a,t,g, or c

<400> 3

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cccttacaat agtcattcca tccatctgtt gcttatttga attctcattt atttttactt 180
tatggcatta aaatacaata aatctgtcaa ttatgtattt tatattagta gtagcttaag 240
attgggtcac ttcatctcgg tagatataat tgtagtatt atccttcagg acaaaaagca 300
tctgctaaca acctgtggtt taaaatatag gccaaacttta tgttcaaaca ttatgttgat 360
aatattttta gcagtattac acagtggagg tccaaatttg attagacttt tgcattgatt 420
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<210> 4

<211> 608

<212> DNA

<213> Homo sapiens

<220>
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<220>
<221> misc feature
<222> (578)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (582)
<223> n equals a,t,g, or c

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aaatggtact ggrtcttagt ttctgtgcag aatattctgt gaattttggg aaatgtaagt 180
gagtcacatt gcttctggac caattctggt tcatgtatgt tagcatccta gaaacaccta 240
gcaatggacc tagttcacag taataggtgc aaagaaagac caaatggact ttgcagtatt 300
aaccctttgc agtcgtcata cttagctgct gcctgtaatg ctaaaatgat tttaatggtt 360
gtctggaggc aaagggctgt tttttagtat attgccacta aaggacattt atttatatca 420
aacttttatt ttagatatatt ataagcatac agtacataat tgatgaaatt gatatttact 480
agagatttat ggtagagaat ggacgacatt caataactgg gagcccgaga ttgtycactt 540
tattttaaaa agacaaataa tcmnctggac aagacagnca cngttggcca ttataaggga 600
gaaatagg 608

<210> 5
<211> 696
<212> DNA
<213> Homo sapiens

<400> 5
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gctggaaatc gacttcggtt tcagttggag ttggaatttg tgcaatgttt agccaaccca 180
aattaccctta attttcttgc ccaaagaggt tacttcaaag acaaagcttt tgtaattat 240
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tgtttacaca tgtttagagct gtcaccaat gaacacttcc gaaaggagct ggtgaatgct 360
cagtgtgcga aatttattga tgaacagcag attctacatt ggcagcacta ttcccggaa 420
cggatgcgcc ttcagcaagc cttggcagag cagcaacagc aaaataacac atcgggaaaa 480
tgaaaaactg gatacaaacg aggcacttaa tacatgtata taatgtatct cttttgtaca 540
gtgaagacaa aaaaaatgaa aactcttcct atctaccttt attatggtag cccttagaac 600
ctttagtgtg ctttttcctc caacttttta ttgtaatatg actatttctg ttaaacctga 660
attgttcttt gatttcctg tggatttgta aggtgt 696

<210> 6
<211> 292
<212> DNA
<213> Homo sapiens

<400> 6

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aaatacagct gttgcaaata ttgaatactg atatgttatt cacagtaaaa ataattcttag 180
ttgtaagaag tctatttgaa ttataaaaata aatatatttc atacctgtca tggattaaaa 240
aaattttttt taattgaacc cgggaagcgg aggttgcggt gagccaagat cg          292
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<210> 7

<211> 362

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (66)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (326)

<223> n equals a,t,g, or c

<400> 7

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gacttgaggt catccagggc acgactcctt gaaactgttc actgatttga gctgtaatcc 180
agaaatgatg aagaatgcag cagattcata ttctcactt ttacaagggt tcataaattc 240
tttgggatgg aatctaccca agaaagcaag ttacggttat atttcaaaat ttccaagtgg 300
gactgataca ttgcaaggac aggttnccaa gtgccccagc aggatgccgt ttttttgaa 360
tt                                     362
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<210> 8

<211> 405

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (391)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (402)

<223> n equals a,t,g, or c

<400> 8

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cctattgatg ttggggaatt ccttctgcca caatcatttc acttatttct tcctatactg 120
tttcattata gctaactcct tcagtcttta attctttaag ttgctaatacc tttgtgacta 180
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ttttctatac caggtaatga ctacagccat ttctgtctta tagttaaaagg gtctacaaaa 240
gaatcaactt ctgcactcct gcagaaatca aaacccatgg tatttgtgca agaagtatga 300
tagaccataa atgargtgcc ttgggtgaac gtctctgaga tcaacatgtg caaataccyc 360
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<210> 9
<211> 1027
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

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ctgtccgtcc agagccggca tccttgcttg tctaaagcct taactaagac tcccgccccg 180
ggctggccct gtgcagacct tactcagggg atgtttacct ggtgctcggg aagggaaggg 240
aaggggccgg ggagggggca cggcagggct gtggcagcca cacgcaggcg gccagggcgg 300
ccagggagccc aaagcaggat gaccacgcac ctccacgcca ctgcctcccc cgaatgcatt 360
tggaacccaaa gtctaaactg agctcgcagc ccccgcgccc tccctccgcc tcccatcccc 420
cttagcgctc tggacagatg gacgcagsec tgtccagccc ccagtgcgct cgttccggtc 480
cccacagact gcccagcca acgagattgc tggaaaccaa gtcaggccag gtgggcggac 540
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gggggac 1027

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<210> 10
<211> 1515
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<222> (1515)
<223> n equals a,t,g, or c

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<400> 10

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tgtggcttaa tgccagttac gacgctgcct ttccggcctg ctccagcaag tagctactgg 180
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caggcctggc ctacagacttg gccttgtgga tgggcyycct acagtatttg ctgactagtc 480
tcatttttag gtgataagtt tttctttaat tccttgggtt aaagatagtc tatttcattg 540
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<210> 11

<211> 847

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (766)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (795)

<223> n equals a,t,g, or c

<400> 11

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gatgatcgtt cgtccgaccg gaggggtgat gaccggcgat actgtggcag ctacagacgc 360
aacgattata gccgggacg gggagatgcc tactatgaca cagactatcg gcattcctat 420
gaatatcagc gggagaacag cagttaccgc agccagcgca magccggaga agcacagacg 480

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gcggargarg cgcacggarc atttagccgy tcatcttcgg tgagtgccag cccaggccct 540
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ctcagctgaa cattggggca tgaacactga ggtgggact gagtttgcct actttcttgg 660
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<210> 12

<211> 506

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (416)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (486)

<223> n equals a,t,g, or c

<400> 12

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ccctcagctc cgtctccggc gcggtacact gccccgtttt ccctgtgagt tgacctgctc 180
cgggccgcgc gccgccaatg gcagggggccg ctccgaccac ggccttcggg caggcggtga 240
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agtgtgccgt ggacgtgggc gagctggtgg ggctgggcga cgtkatggac gcgctnccgc 420
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<210> 13

<211> 267

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (259)

<223> n equals a,t,g, or c

<400> 13

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aattttttta aaaaaatttg tgtgcttctg ctctactact cactgggtgtg tccctctgcc 180
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aatcacagct cactgcagnc ttgtcct 267

<210> 14
<211> 919
<212> DNA
<213> Homo sapiens

<400> 14
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<210> 15
<211> 2559
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2543)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2544)
<223> n equals a,t,g, or c

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acctgagcca gaaacctggg agcagatcct ccgccgaaat gtcctccagc atgggggcagc 780
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gggtggcacc caggccagtg cgggtggtggg cttgggtccc ccaggagagg ctggttacia 900
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gccaaggca tgttttgccc accagatcat ggcccacrtg gagggccacc tgcctctgtc 1980
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gttgagtaat gctcgtctgt gtgttttagt ttcatacact gttatctgtg tttgctgagg 2460
agagtggaa acagaggggtg gaggtttga taaataaagt ttctttgtct ctttattttt 2520
tatgtattaa cccaaaaaaa aannaaaaaa aaaaatttc 2559
```

<210> 16

<211> 1504

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (665)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1503)

<223> n equals a,t,g, or c

<400> 16

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tgccatcgag gttctgctat ttttgagaag ctgaagcaac tccaaggaca cagttcacag 60
aaatttggtt ctcagcccca aaatactgat tgaattggrrg acaattacaa ggactctctg 120
gcaaaaaacc cttgaagagg ccccgtaga gaggcagtga ggagcttttg attgctgacc 180
```

tgtgtcgtac caccaccagaa tgtgcactgg rggctgtgcc agatgcctgg gggggaccct 240
cattcccctt gctttttttg gcttcctggc taacatcctg ttattttttc ctggaggaaa 300
agtgatagat gacaacgacc acctttccca agagatctgg tttttcggag gaattattagg 360
aagcgggtgtc ttgatgatct tccctgcgct ggtgttcttg ggcctgaaga acaatgactg 420
ctgtgggtgct tgcggcaacg agggctgtgg gaagcgattt gcgatgttca cctccacgat 480
atgtgtgtgtg gttggattct tgggagctgg atactcgttt atcatctcag ccatttcaat 540
caacaaggggt cctaaatgcc tcatggccaa tagtacatgg ggctaccctt tccacgacgg 600
ggattatctc aatgatgagg ccttatggaa caagtgccga gagcctctca atgtggttcc 660
ctggnaatct gaccctcttc tccatcctgc tggctgtagg aggaatccag atgggttctct 720
gcgccatcca ggtggtcaat ggccctcctg ggaccctctg tggggactgc cagtgtttgtg 780
gctgtctgtg gggagatgga cccgttttaa cctccgagat gagctgctca gactctacag 840
catgacgact acaatttctt ttcataaaac ttcttctctt cttggaatta ttaattccta 900
tctgtctcct agctgataaa gcttagaaaa ggcagttatt ccttctttcc aaccagcttt 960
gctcgagtta gaattttgtt attttcaaat aaaaaatagt ttggccactt aacaaatttg 1020
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cacattttaa atgagaaact aagaccaatt tctgttttta agaggaaaaa gaatgattga 1260
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gaattcagag gtaacgtaac aaagattgtg tgtgttttag gaggggggac aaaacgttga 1440
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aana 1504

<210> 17

<211> 833

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (160)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (258)

<223> n equals a,t,g, or c

<400> 17

atgatctacc acccagcctt catcaagtat gtctttgaca actggctgca agggcacggg 60
cgatacccat ctaccggcat cctctcagtc atcttctcaa tgcattgtctg cgatgaggtg 120
gacttgtacg gcttcggggc agacagcaaa gsgaactggn caccactact gggagaacaa 180
cccacccgcg ggggtttttc gcaagacggg ggtgcacgat gcagactttg agtctaacct 240
gacggccacc ttgggctncc atcaataaaa tccggatctt caaggggaga tgacgcatga 300
agggctgagg atggacgcac tgtcacacct ctgcatttcc agccccagca tcttgtctga 360
gccgttccat cccggagctt ggaggggagc cctcaggtgt gtgcctgggc accgctcaca 420
gctctttgca cccagccgtt ggcagcatct actcagcaag gtcactaagc tctgccagcg 480
tgccagagca tgtcttgaa cctgtcttga gtggggacaa cgtccccac tgctgcccta 540
gagctgggga gacgctggga aaggttcaac ctccacacac taaaatcatt ttggctcctg 600
gggcaagctt kgggaatgaa tgtggaagat gcctatattc tgagagacag gacagtttcc 660

caggaagatg ggcagagact tkagtggcga ttacctccag cacagagacg tgccaggcgg 720
tggtggcgct cggggcgaga tgctgccctt ctttgcacsa agcctggcct cttgcttggc 780
gtgataaccc tgtcatcttc ccaaagctca tttatgagcc accagaggct cct 833

<210> 18
<211> 643
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (103)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (572)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (613)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (643)
<223> n equals a,t,g, or c

<400> 18
gccttggtct cctgcattct gaccagggca tctgcagtgc acgaggggtt atggcaaacc 60
ccattgaagc cagttccgta tgggctggac ctggactgcg gantccctgg caccacagag 120
gtcatgtct gttttgaacc cctgtcagaa ttacaccctc ctggatgaac ccttccgaag 180
cacagagaac tcagcagggt ccaggggtg cgataaaaac atgagcggct ggtaccgctt 240
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agacgctccc atgtggctga atgggaccca ccctgccctt ggggatggca tcaccaacca 360
cactgcctgt gccattgga gtggcaactg ctgtttctgg aaaacagagg tgctggtgaa 420
ggcctgcccc ggcgggtacc atgtgtaccg gttggaaggc actccctggt gtaatctgag 480
atactgcaca gaccatcca ctgtggagga caagtgtgag aaggcctgcc gccccgagga 540
ggagtgcctt gccctcaaca gcaactgggg tntttctgc agacaaggac ctcaatagtt 600
ctgatgtcca canttttgca gcctcagtta gactttgggg ccn 643

<210> 19
<211> 340
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (262)
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (333)

<223> n equals a,t,g, or c

<400> 19

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aattcggcac gagggaaaaa ttrcacaaac aatctcagcc tgggtaaatg agagatgccc 60
tgttagctta ttctccccag ttacccttt ctccccaggt gatcaagtat ggattaaaga 120
ctgggaatgt agcttctttg tgcccatggt ggataggacc ccagattgts atcctgacca 180
ctctcaccgc tgtgaaggta gaaggaatcc cagcctggat ccaccacagc catgtaaaac 240
ctgcagcgcc tgaaacctgg gnggcaagac caagcccgga caacccttgc agagtgcct 300
tgaagatgat gacaagccct gttccagtca canccagaag 340
```

<210> 20

<211> 673

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<400> 20

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ggnncctttcc ctttcccggg gcctggggcg caatcaggtg gagtcgagag gccggaggag 60
gggcaggagg aaggggtgcy gtcgcgatcc ggaccgggag ccagcgcgga gcacctgcgc 120
ccgcggctga caccctcgct cgcagtttgt tcgcagttta ctgcacacc agtttcccc 180
accgcgcttt ggattagtgt gatctcagct caaggcaaaag gtgggatatc atggcatcta 240
tctgggttg acaccgagga acagtaagag attatccaga ctttagccca tcagtggatg 300
ctgaagctat tcagaaagca atcagaggaa ttggaactga tgagaaaatg ctcacagca 360
ttctgactga gaggtcaaat gcacagcggc agstgattgt taaggaatat caagcagcat 420
atggaaagga gctgaaagat gacttgaagg gtgatctctc tggccacttt gagcatctca 480
tggtggccct agtgactcca ccagcagctt ttgatgcaaa gcagctaaag aaatccatga 540
agggcgcggg aacaaacgaa gatgccttga ttgaaatctt aactaccagg acaagcaggc 600
aaatgaagga tatctctcaa gcctatztat acagtataca agaagagtct tgggagatgg 660
acattagttt ccg 673
```

<210> 21

<211> 415

<212> DNA

<213> Homo sapiens

<400> 21

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aattcggcac gagctgaatt atgtttaaat ttattgtagg atgctgatct tctggacaat 60
cacacttttc ctgctgggag cagccaaagg aaaagaagtt tgctatgagg acctcgggtg 120
```

```
cttttttgac actgagccct ggggcgggac agcaatcagg cccctgaaaa ttctcccctg 180
gagccctgag aagatcggca cccgcttcct gctgtacacc aatgaaaacc caaacaactt 240
tcaaattctc ctctctcttg atccatcaac aattgaggca tcaaattttc aaatggacag 300
aaagacccgg ttcatcatcc atgggtttca tagacaaagg ggatgagagc ttgggtgaca 360
gacatgtgca agaaactttt tcggggttgg aggaggtgaa ctgcatttgc gttgg      415
```

<210> 22

<211> 633

<212> DNA

<213> Homo sapiens

<400> 22

```
aattcggcag agatttcaaa tggacagaaa gacccggttc atcatccats gcttcataga 60
caaaggagat gagagctggg tgacagacat gtgcaagaaa ctgttcgagg tggaggaggt 120
gaactgcacg tgcgtggact ggaagaaggg ctccaagcc acctacacac aggctgccaa 180
caacgtgcca gtggtgggag cccaggtggc ccagatgctc gacatcctct tgacagagta 240
tagctacccc ccttccaaag ttcacctcat tggccacagc ctgggagccc acgtggctgg 300
agaggcagga agcaagactc caggcctgag caggattaca gggttggatc ctgtagaagc 360
aagtttcgag agtactcctg aagaggtgcg acttgatccc tctgaatgct gacttttttg 420
atgtgattca cacggatgca gctcccctga tcccattctt gggttttgga acgaaccaac 480
agatgggtca tcttgacttc ttccccaatg gaggagagag catgccggga tgcaagaaga 540
atgccctgtc tcagatcgtg gatctagatg gcactctggg gggaaccgga gacttttttg 600
cttgcaattc acctaagaag ctacaagtta tta      633
```

<210> 23

<211> 2423

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (18)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (54)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2409)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2422)

<223> n equals a,t,g, or c

<400> 23

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cngncagtga cngtgccnga ttccccgggtc gaccacgcg tccggaacag ctgnaaacct 60
tttgaggga gaaggaggag gagcttgaag tcagcttga gcctcccaag tggaaaggctc 120
ccagggtgct gagcttctct ctgaaatcca aagtcctcaa cgaaatgtca gctttgatgt 180
gcttcctgcc tttaatgcac tgggtcagct gagttctggc tccacaccca gccccgaggt 240
ttatgcaggg ctcatgtatc tgtataaatc ctcggaacctc ccgggaggag agttttctac 300
ctgtttcaca gtcctgcagc gaaacttcat tcgctcccgg cccaccaaac taaaggattt 360
aattcgcctg gtgaagcact ggtacaaaga gtgtgaaagg aaactgaagc caaaggggtc 420
tttgcccca aagtatgcct tggagctgct caccatctat gcctgggagc akgggagtg 480
agtgcggat ttgacactg cagaagggtt ccggacagtc ctggagctgg tcacacaata 540
tcagcagctc tgcatcttct ggaargtcaa ttacaacttt gaagatgaga ccgtgagaaa 600
gtttctactg agccagttgc agaaaaccag gcctgtggat cttggaccca gccgaaccca 660
caggtgacgt ggggtggagg gaccgttggg gttggcatct tctggcaaaa gaagyaagg 720
aatggttatc ctctccctgc ttcaaggatg ggactggaaa cccaatacca ccttggaagg 780
tgccggtaaa agtcatctaa aggaggcgtt gtctggaat agccctgtaa caggsttgaa 840
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gttccccctg gttcacagat cttctgcct ttggcttttg gctccacct ctttagctgt 1140
taatttgagt acttatggcc ctgaaagcgg ccacggtgcc tccagatggc aggtttgcaa 1200
tccaagcagg aagaaggaaa agatacccaa aggtcaagaa cacagtgatt ttattagaag 1260
tttcatccgc aaattttctt ccatttcatt gctcagaaat gtcatgtggy tacctgtaac 1320
ttgaagggtg ctacaaagat gactgtggac gtgggttgca ctggccacc aaggatgtct 1380
gccacacctc tccaaagccc tccctacct ccaagatata cctgatata tccaccagga 1440
tactctcct ccagatatac ttggttctct ccaccagggt ctttctttaa agcaggattt 1500
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tsmcaattaa aagtgtcttg agactttatc agtgtcttct gccctagggtg agaacccttg 1680
cactagagga accctacacc ccaaccctgg ggggaatgta gggaagagg ggccaagcca 1740
accgtggggt tagctctaata tattaagata tgcattataa ataaatacca aaaaattgtc 1800
tctggcaata gttaccttcc cagatacagg tcccccttt ttccccctaa ctcttttaag 1860
caatgattgt aactattagg agacattgct ctcccacgta tgtttttctt tttagacaat 1920
gcagacacca ggaagttgtg gagctaggat ccattcctatt gtcaatgaga tgttctcatc 1980
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tggtccttat tcctccttcc cttgcttctt ggacttcttg aaatcaatca agactgcaaa 2160
ccctttcata aagtcttgcc ttgctgaact ccctctctgc aggcagcctg cctttaaaaa 2220
```

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tagttgctgt catccacttt atgtgcatct tatttctgtc aacttgatt ttttttcttg 2280
tatttttcca attagtcctt cttttttcct tccagtctaa aaaaggaatc ctctgtgtct 2340
tcaaagcaaa gctctttact ttcccttggg ttctcataac tctgtgatmt tgctctcggg 2400
gcttcmaant cakccaagtc cng 2423

```

```

<210> 24
<211> 384
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<222> (357)
<223> n equals a,t,g, or c

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```

<400> 24
ggaagctcca ggcaaacagc ccagcaaaca gcagcactca gctaaaagga agactcacag 60
aacacagttg aagaaggaaa gtggcgatgg acctcatccc aaatttggcg gtggaaacct 120
ggcttctcct ggctgtcagc ctggtgctcc tctatctata tgggaccctg acacatggac 180
tttttaagag actgggaatt ccagggccca cacctctgcc ttgttgagg aatgttttgt 240
cctatcgtca gggctctctg aaatttgaca cagagtgtca taaaaagtat ggaaaaatgt 300
gggggtgagt attctgaaaa cctccattgg atagacctgc tactgtgagg aggttanccc 360
atgcagagat ctctggccag ttg 384

```

```

<210> 25
<211> 900
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (880)
<223> n equals a,t,g, or c

```

```

<400> 25
cctgcagacc ncaggtctgc ggcaggatgg gagccgccag atcgccatcg cggccatggg 60
ggccaacttc accaagccca cagccgacgc gccctcgctg ctgcagcatg acgaggtgga 120
gacctacttc catgagtttg gccacgtgat gcaccagctc tgctcccagg cggagtctgc 180
catgttcagc gggaccacag tggagcggga ctttgtggag gcgccgtcgc agatgctgga 240
gaactgggtg tgggagcagg agccgctgct gcggatgttc gcggcactac cgcacaggca 300
gcgcctgccc ccgggagctc ctggagaagc tcattgagtc ccggcaggcc aacacaggcc 360
tcttcaacct gcgccagatc gtccctcgcca aggtggacca ggccctgcac acgcaracgg 420
acgcagaccc cggcgaggag tatgcgcggc tctgccagga gatcctcggg gtccccggca 480
cgccaggaac caacatgcct gcaaccttcg gccatctggc aggtggctac gacgcccagt 540
actaggggtc cctgtggagc gaggtgtatt ccatggacat gttccacacg cgcttcaagc 600
aggagggtgt cctgaacagc aaggttggca tggattacag aagctgcacg ctgagacctg 660

```

gcgggtccga ggatgccagc gccatgctga ggcgcttcct gggccgtgac cccaagcagg 720
acgccttcct cctgagcaag gggctgcagg tcgggggctg cgagcccag ccgcagtctg 780
gytgaggcct ggcattgcga ctgcccakty tgggcytgcg ctcccgcgc cctggtgctt 840
tagcccccg cagaggatgg ggcaggytyt ggcamatgcn tgggattggc aggtggctga 900

<210> 26

<211> 1322

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (363)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (366)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1321)

<223> n equals a,t,g, or c

<400> 26

ggaagtgaga agccgggtgg ggcaggctgg aaggaagacg aacctacgaa gcagagatct 60
gaagacagca tgtacacagc cattccccag agtggtcttc cattcccagg ctcaagtgcag 120
gatccaggcc tgcattgtgt gcgggtggag aagctgaagc cggtgcctgt ggcgcaagag 180
aaccaggggc tcttcttctc gggggactcc tacctagtgc tgcacaatgg cccagaagag 240
gtttcccatc tgcacctgtg gataggccag cagtcattcc gggatgagca gggggcctgt 300
gccgtgctgg ctgtgcacct caacacgctg ctgggagagc ggctgtgca gcaccgcag 360
gtagnaggca atgagctctga cctcttcatg agctacttcc cacggggcct caagtaccag 420
gaaggtggtg tggagtcagc atttcacaag acctccacag gagccccagc tgccatcaag 480
aaactctacc aggtgaaggg gaagaagaac atccgtgcc aagagcgggc actgaactgg 540
gacagcttca aactgggga ctgcttcac cttggacctg gccagaacat cttcgccctg 600
tgtggtggaa agtccaacat cctggaacgc aacaaggcga gggacctggc cctggccatc 660
cgggacagtg agcgacaggg caaggcccag gtggagattg tcaactgatg ggaggagcct 720
gctgagatga tccaggtcct gggccccaag cctgctctga aggagggcaa ccctgaggaa 780
gacctcacag ctgacaaggc aaatgccag gccgcagctc tgtataaggt ctctgatgcc 840
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tcgcgcatgc agtacgcccc gaacactcag gtggagattc tgccctcagg ccgtgagagt 1080
cccatcttca agcaattttt caaggactgg aaatgagggt gggcgtcttc ctgccccatg 1140
ctcccctgcc cccaccacc tgcctgcttg cttctcttgc tgccctggtc gtgcagaggt 1200
gccccctgca gatgttcaat aaaggagaca agtgctttcc cagctctttt cctgcaaaaa 1260
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1320
ng 1322

<210> 27

<211> 457
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (432)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (435)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (454)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (457)
<223> n equals a,t,g, or c

<400> 27
aacctcattg cctgctcata aagtatkagc aggcaatgag gtttcacaaa tctcatctaa 60
atactctcca atctatttagc aaaaatcaga gtaaaataca gaggaaaggc actgctttct 120
gttaattgat ttaacatgca tgaattagct ccctctgagt tccaggcact atgctgagag 180
tacaaagaag acacaagtct gctttcaagc aactcactgt gaaagtgttt ttgaagggag 240
gaacagaaat gagacccta tctttcccta taaaacaac atttttactg tcttttgcc 300
gccaatctgt atttgaaacc attggacact gattctctgg sctgggactt tggcattgat 360
gggtttctgc ctttctctc agcctctgcc tctattgcat ttattaaact gcattgtgtg 420
caaaaaaaaa anaanaaaaa aaaaaagggg gggnccn 457

<210> 28
<211> 596
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (538)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (583)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (593)

<223> n equals a,t,g, or c

<400> 28

```
cgcggcgggc tcctcgggtgc gcgacccccg gctcagagga ctctttgctg tcccgcaaga 60
tgcggatgct gctggcgctc ctggccctct ccgcggcgcg ccatcggcag tgcagagtca 120
cactgggtgct acgaggttca agccgagtcc tccaactacc cctgcttggg gccagtcaag 180
tgggggtggaa actgccagaa ggaccgccag tcccccatca acatcgtcac caccaaggca 240
aaggtggaca aaaaactggg acgcttcttc ttctctggct acgataagaa gcaaactggg 300
actgtccaaa ataacgggca ctcagtgatg atgttgctgg agaacaaggc cagcatttct 360
ggaggaggac tgccctgccc ataccaggcc aaacagttgc acctgcaactg gtccgacttg 420
ccatataagg gctcggagca cagcctcgat kgggaagcat ttgccatggg agatgcacat 480
agttacatga gaaagagaag gggacatccg aggaatgtga aagaggccca ggaccctnaa 540
agacgaattt gcggtgctgg gctttttttg ggtggagggt ggnaaccggt ttnaac 596
```

<210> 29

<211> 436

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (64)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (372)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (410)

<223> n equals a,t,g, or c

<400> 29

```
ccaaagaggg gttgmtctct cttcacctrc tctgttctac agcacactac cagaagacag 60
cagnaatgaa aagcatttac tttgtggctg gattatattgt aatgctggta caaggcagct 120
ggcaacgttc cttcaagac acagaggaga aatccagatc attctcagct tcccaggcag 180
accactcag tgatcctrat cagatgamcg aggacaagcg ccattcacag ggcacattca 240
ccagtgacta cagcaagtat ctggactcca ggcgtgccca agattttgtg cagtggttga 300
tgaataccaa gaggaacagg aataacattg ccaaactgca cgggtgaattt tgagagacat 360
gctggaagg gnccttttac cagtgggtga agtttcttat ttgggaaggn caagctgccc 420
aagggattca ttgctt 436
```

<210> 30

<211> 1314

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature
 <222> (572)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1177)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1284)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1295)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1306)
 <223> n equals a,t,g, or c

<400> 30
 gctgggggct ggtgggggagc aggggaaggg aatgtgacca ggtctagggtc tggagtttca 60
 gcttgggacac tgagccaagc agacaagcaa agcaaagccag gacacacccat cctgccccag 120
 gcccagcttc tctcctgcct tccaacgcca tggggagcaa tctcagcccc caactctgcc 180
 tgatgccctt tatcttgggc ctcttgtctg gaggtgtgac caccactcca tggctcttgg 240
 cccggcccca gggatcctgc tctctggagg gggtagagat caaaggcggc tccttccgac 300
 ttctccaaga ggccaggca ctggagtacg tgtgtccttc tggcttctac ccgtaccctg 360
 tgcagacacg tacctgcaga tctacggggt cctggagcac cctgaagact caagaccaaa 420
 agactgtcag gaaggcagag tgcagagcaa tccactgtcc aagaccacac gacttcgaga 480
 acgggggaata ctggccccgg tctccctact acaatgtgag tgatgagatc tctttccact 540
 gctatgacgg ttacactctc cggggctctg cnaatcgcac ctgccaagtg aatggccggt 600
 ggagtgggca gacagcgatc tgtgacaacg gagcggggta ctgctccaac ccgggcatcc 660
 ccattggcac aaggaagggtg ggcagccagt accgccttga agacagcgtc acctaccact 720
 gcagccgggg gcttaccctg cgtggctccc agcggcgaac gtgtcaggaa ggtggctctt 780
 ggagcgggac ggagccttcc tgccaagact ccttcattga cgacaccctt caagagggtgg 840
 ccgaagcttt cctgtcttcc ctgacagaga ccatagaagg agtcgatgct gaggatgggc 900
 acggcccagg ggaacaacag aagcgggaaga tcgtcctgga cccttcaggc tccatgaaca 960
 tctacctggt gctagatgga tcagacagca ttggggccag caacttcaca ggagccaaaa 1020
 agtgtctagt caacttaatt gagaagggtg caagtatatg tgtgaagcca agatatggtc 1080
 tagtgacata tgccacatac cccaaaattt ggggtcaaagt gtctgaagca gacagcagta 1140
 atgcaggact gggtcacgga agcagcttca atgraantca attwttgaag accacaagtt 1200
 tgaagtcagg ggcttaacac caaggaaggg ccctccaggg agttgttaca gcattgatga 1260
 ggttgggcca gatggacgtt cccntccttg aaggnttggg aaccgncacc cgcc 1314

<210> 31
 <211> 1467
 <212> DNA

<213> Homo sapiens

<400> 31

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aagagattcc cccctcacta tgcattgggt ccttgcaggt aaacgatcga cgcattctag 60
atgggatgtt tgctatctgt ggtgtttctg acagcaagtt ccgtaccatc tgctcctcag 120
tagacaagct ggacaaggtg tcctgggaag aggtgaagaa tgagatgggt ggagagaagg 180
gccttgcacc tgaggtggct gaccgcattg gggactatgt ccagcaacat ggtggggtat 240
ccctggtgga acagctgctc caggatccta aactatccca aaacaagcag gccttggagg 300
gcctgggaga cctgaagttg ctctttgagt acctgacctt tttggcattg atgacaaatc 360
tcctttgacc tgagccttgc tcgaagggtt ggattactac actggggtga tctatgaggc 420
agtgtgcta cagaccccag cccaggcagg ggaagagccc ctgggtgttg gcagtgtggc 480
tgctggagga cgctatgatg ggctagtggg catgttcgac cccaaagggc gcaaggtgcc 540
atgtgtgggg ctacgattg ggggtggagc gattttctcc atcgtggaac agagactaga 600
ggctttggag gagaagatac ggaccacgga gacacaggtg cttgtggcat ctgcacagaa 660
gaagctgcta gaggaaagac taaagcttgt ctcagaactg tgggatgctg ggatcaaggc 720
tgagctgctg tacaagaaga acccaaagct actgaaccag ttacagtact gtgaggaggc 780
aggcatccca ctggtggcta tcatcggcga gcaggaaactc aaggatgggg tcatcaagct 840
ccgttcagtg acgagcaggg aagaggtgga tgtccgaaga gaagacctg tggaggaaat 900
caaaaggaga acaggccagc ccctctgcat ctgctgaact gaacaaacta tcagaggaaa 960
ggaagtggga ctggcactat ttgaggttaa gacaaactgc atatgtactt caattgcttt 1020
gcacttttcc gtttcagcgg aagacctgaa gagtggtcag aacagagcct ttgattttta 1080
ttatggttat ttattgatt attactggca aaaacggcca ggtacaacac ctttttcata 1140
caaggcccag gaggcttagt ccagtctgtg ctccctgggt acaaggaccc agcctgagat 1200
ggtcccatct gcaggggccc gcaccagtgt gagcagatgc ctccccacca ccaattgcca 1260
aaggtccaat aaaatgcctc aaccacggag tctgctgtgt tcagtgatgc ctagccccgc 1320
cttccccagc agaccaatgt agggatggaa aaggagagaa aacagtaaac ttgtgacctt 1380
gaggttcttg tctccagcgt tccacctgcg gcttgggagc ttctcctcgg gaggcagccc 1440
ccgtacatta cgcaccccgc gaactttt                                     1467
```

<210> 32

<211> 2346

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2346)

<223> n equals a,t,g, or c

<400> 32

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gcagtacaag cggcactgca tcaactgcct gcacgtcgtc accctgtaca atcgaatcaa 60
gagagacccg gccaaggctt ttgtgcccag gactgttatg attgggggca aggcagcgcc 120
cggttaccac atggccaagc tgatcatcaa gttggtcacc tccatcggcg acgtcgtcaa 180
tcatgaccca gttgtgggtg acaggttgaa agtgccttc ctggagaact accgtgtgtc 240
cttggtgtag aaagtgatcc cggccgctga tctgtcgcag cagatctcca ctgcaggcac 300
cgaggcctca ggcacaggca acatgaagtt catgctcaac ggggccctca ccatcggcac 360
catggacggc gccaacgttg agatggccga ggaggcsggg gccgagaacc tcttcattct 420
cggcctgcgg gtggaggatg tcgaggcctt ggaccggaag gggtagaatg ccaggagtag 480
ctacgaccac ctgcccagc tgaagcaggc cgtggaccag atcagcagtg gctttttttc 540
tcccaaggag ccagactgct tcaaggacat cgtgaacatg ctgatgcacc atgacaggtt 600
caagggtgtt gcagactatg aagcctacat gcagtgccag gcacaggtgg accagctgta 660
```

```
ccggaacccc aaggagtga ccaagaaggt catcaggaac atcgctgct cgggcaagtt 720
ctccagtac cggaccatca cggagtatgc acgggagatc tgggggtgtg agccctccga 780
cctgcagatc ccgcccccca acatcccccg ggactaggca caccctgcct tggcgggacc 840
agcgggcatt tgttttcttg ctgactttgc acctcctttt tccccaaac actttgccag 900
ccgctgggtg tccctgcttt tctgagtacc atgtttccag gaggggcat gggggtcagg 960
gtggttttga gagagcaggg taaggaagga atgtgctaga agtgctccta gtttcttgta 1020
aaggaagcca gagttgacag tacaaagggt cgtggccagc cctgcagctt cagcacctgc 1080
cccacccaga gtgggagtca ggtggagcca cctgctgggc tccccagaa ctttgcacac 1140
atcttgctat gtattagccg atgtctttag tgttgagcct ctggattctg gggctcgggc 1200
cagtggccat agtgaagcct gggaatgagt gttactgcag catctgggct gccagccaca 1260
gggaagggcc aagccccatg tagccccagt catcctgcc agccctgcct cctggccatg 1320
ccgggagggg tcgcatcctc taggcatcgc cttcacagcc cctgcccccc tgcctctgt 1380
cctggctctg caccctggtat atgggtcatg gaccagatg gggctttccc tttgtagcca 1440
tccaatgggc attgtgtggg tgcttgaac ccgggatgac tgagggggac actggagtgg 1500
gtgcttgtgt ctgctgtctc agaggccttg gtcaggatga agttggctga cacagcttag 1560
cttggttttg cttattcaaa agagaaaata actacacatg gaaatgaaac tagctgaagc 1620
cttttcttgt tttagcaact gaaaattgta cttggtcact tttgtgcttg aggaggccca 1680
ttttctgcct ggcagggggc aggtctgtgc cctcccgtg actcctgctg tgcctgagg 1740
tgcatcttct gttgtacaca caagggccag gctccattct ccctcccttt ccaccagtgc 1800
cacagcctcg tctggaaaaa ggaccagggg tccsggagga acccatttgt gctctgcttg 1860
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ggctggcaac ctgcctycca ttgccaaga gagagggcag ggaacaggct actgtccttc 1980
cctgtggaat tgccgagaaa tctagcacct tgcatgctgg atctgggctg cggggaggct 2040
ctttttctcc ctggcctcca gtgcccacca ggaggatctg cgcacggtgc acagcccacc 2100
agagcactac agccttttat tgagtggggg ggggcaagtg ctgggctgtg gtcgtgccct 2160
gacagcatct tccccaggca gcggtcttgt ggaggaggcc atactccct agttggccac 2220
tgggggcacc acctgacca cactgtgcc cctcattgtt actacctgt gagataaaaa 2280
ctgattaaac ctttgtggct gtggttggct gaaaaaaaaa aaaaaaaaaa aaaaaaagg 2340
gggggn                                           2346
```

<210> 33

<211> 459

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (388)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (394)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (428)

<223> n equals a,t,g, or c

<400> 33

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tcgacccacg cgtccgagag acagtcacac cagctgcccc tagtggggct cttactgttt 60
tcttttattc caagccaact atgcgagatt tgtgaggtaa gtgaagaaaa ctacatccgc 120
ctaaaacctc tgttgaatac aatgatccag tcaaactata acaggggaac cagcgctgtc 180
aatgttgtgt tgtccctcaa acttggttga atccagatcc aaaccctgat gcaaaagatg 240
atccaacaaa tcaaatacaa tgtgaaaagc agattgtcag atgtaagctc gggagagytt 300
gccttgatta tactggcttt gggagtatgt cgtaacgctg aggaaaactt aatatatgat 360
taccacctga tcgacaagyt agraanaa attnccargc agaaattgga aaatwtggga 420
ggcacacnat gggcactccc ctgacttact acttcccag 459

```

<210> 34

<211> 629

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (607)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (613)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (617)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (621)

<223> n equals a,t,g, or c

<400> 34

```

gttggacttt aatcttaccg atccagaaaa tgggcctgtt cttgatgatt ctctaccaa 60
ctcagtagat gaatatattc ctttgccaa agatttgtga aataaggaaa aatgtatctc 120
agacctcagc ctgcatgtcg ccaccactga aaaggacctg ctgattgtcc gatcccagaa 180
tgataagttc aacgttagcc tcacagtcaa aaatacaaaag gacagtgcct ataacaccag 240
gacaatagtg cattattctc caaatctagt tttttcagga attgaggcta tccaaaaaga 300
cagtttgtga tctaatacata atatcacatg taaagttgga tatcccttcc tgagaagagg 360
agagatggta actttcaaaa tattgtttca gtttaacaca tcctatctca tgggaaaatg 420
tgaccattta tttaagtga caagtggaca gcgarggaac ctcctgaaac ccttitytgat 480
aatgtagtaa acatttsytw tcccgggtaa aatwtggaag ttgggctaca gttttacagy 540
tctgcaagtg grwtaccaca ttccaatggc cggccatgga gacagtcccc ggaagtttat 600
taattcnacc ggnggancat nggaaagg 629

```

<210> 35

<211> 918

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (918)

<223> n equals a,t,g, or c

<400> 35

```
atggcagcgc cgtggctgcc accagcacca tcaacacacc ctttggagcg atggtgtatt 60
caccacggac aggcattcatc ctcaacaacg agctcctgga cttatgagag cgatgcccc 120
gggggttccgg caccaccccc tcacctgtga gtggagacag ggtgggtgga gctcccgaa 180
gtgctggccc ccagttccag gcgagcgttc cccatcctcc atggtgccct ccatcttgat 240
caacaaagcc caggggtcga agctagtgat tggcggggct ggcggggagc tcatcatctc 300
tgctgtggcc caggcatcat gagcaagctg tggcttggtc ttgacctgag agcggccatt 360
gcagccccca tcctgcatgt caacagcaag ggctgtgtgg agtacgagcc caacttcagc 420
caggaggtgc agaggggact ccaagaccgt ggccagaacc agaccagag gcccttcttc 480
ctgaacgtgg tccaggctgt gtcccaggag ggggcctgtg tgtacgccgt ctcggacctg 540
aggaagagtg gggaggccgc aggtactacta gacactgctc tgcccagagc tgaagtctgg 600
ccccaccatg agtcctgtgt ccaggccgga catggctggg ggaccaacta ctctggcagg 660
atctggacct ctggcagggg agtccagctg agagtggaag aggtggcggg gaccagctgg 720
gcagatgaga gctgagcctc atccctaacc ccctttccca gagcccctgg tggctcctgaa 780
ccggccccctc tatccctccg caggcctctt gcctggggcc actctcccac cctctcgatc 840
tgtatatcct ccagtcctaag attaaagagg cggactgtga aaaaaaaaaa aaaaaaaaaa 900
aaaaaaaaaa aaaaaaaan                                     918
```

<210> 36

<211> 802

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (659)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (677)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (684)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (736)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (763)

<223> n equals a,t,g, or c

<400> 36

```

tgcctccac agtcgggta gcagctcctc ctcacacagc tcctctgtca ggccgggag 60
ctcctacagc tcttccatga gcacaggagg aggtggtgca ggctccctgg gtgcaggcgg 120
tgcctttggt gaagctgcag gagacagggg tccctatggc actgacatcg gccagggcgg 180
aggctatggg gcagcagcag aaggcggcat gtatgctggc aatggcggac tattgggagc 240
tgactttgct ggagatctgg attacaatga gctggctgtg aggtgtcag agagcatgca 300
gcgtcagggc ctactgcaag ggatggccta cactgtccag ggcccaccag gccagcctgg 360
gccacagggg ccacccggca tcagcaaggt cttctctgcc tacagcaacg tgactkcgga 420
cctcatggac ttcttccaaa cttatggagc cattcaagga cccctgggc aaaaaggaga 480
gatgggcact ccaggacca aaggtgacag gggccctgct ggcccaccag gtcctcctgg 540
gccacctggc ccttcgagga cacaaggag aaaaaggaga caaagggtga ccaagtctat 600
gctgggcgga gaaggagaag aagttattgg ctgtcaaccg ttgagctagc catgggcang 660
acagctcctg ggaccangtc ttcntaatgc tgtggcatta ggtccaagtc tccagagggtg 720
aaagtggatc tgctangtct tactgagaca gcacagccaa ctnagtagca acatttgttt 780
tagtctggaa catatatact tt                                     802

```

<210> 37

<211> 2093

<212> DNA

<213> Homo sapiens

<400> 37

```

gtcctccagg aatccctggc cagcctgggc taaagggtct accaggaccc caaggacctc 60
aaggcttacc aggtccaact ggccctccag gagatcctgg acgcaatgga ctccctggct 120
ttgatggtgc aggagggcgc aaaggagacc caggtctgcc aggacagcca ggtaccctgt 180
gtttggatgg tccccctggt ccagatggat tgcaagggtcc cccagggtccc cctggaacct 240
cctctggtgc acatggattt cttattacac gccacagcca gacaacggat gcaccacaat 300
gccacagggg aacacttcag gtctatgaag gcttttctct cctgtatgta caaggaaata 360
aaagagccca cgggtcaagac ttggggacgg ctggcagctg ccttcgtcgc tttagtacca 420
tgcttttcat gttctgcaac atcaataatg tttgcaactt tgcttcaaga aatgactatt 480
cttactggct ctctacccca gagcccatgc caatgagcat gcaaccctta aaggggcaga 540
gcatccagcc attcattagt cgatgtgcag tatgtgaagc tccagctgtg gtgatcgcag 600
ttcacagtca gacgatccag attccccatt gtcctcaggg atgggattct ctgtggattg 660
gttattcctt catgatgcat acaagtgcag gggcagaagg ctcagggtcaa gccctagcct 720
cccctgggtc ctgcttgga grgttctgt cagctccctt catcgaatgt catgggaggg 780
gtacctgtaa ctactatgcc aactcctaca gcttttggct ggcaactgta gatgtgtcag 840
acatgttcag taaacctcag tcagaaacgc tgaaagcagg agacttgagg acacgaatta 900
gccgatgtca agtgtgcatg aaggagcat aacattttga agaattcctt ttgtgtttta 960
aaatgtgata tatatatata taaaattcct aggatgcagt gtctcattgt ccccaacttt 1020
actactgctg ccgtcaatgg tgctactata tatgatcaag ataacatgct gactagtaac 1080
catgaagatt cagatgtacc tcagcaatgc gccagagcaa agtctctatt atttttctac 1140
taaagaaata aggaagtga tttacttttt gggccagaa tgactttctc caagaattat 1200
aagatgaaaa ttatatattt tgcccagtta ctaaaatggg acattaaaaa ttcaattaag 1260
agargagtca ctttagttaa aataaaagac tgacgtttgt gggaagaatt atttttcacg 1320
gtgctactaa tcctgtgta tccccgggtt ttaatataaa ggtgttaagc ttattttgct 1380
ttgtaagtaa agaattgtga tattgtgaac agccttttag ctcaaaatgt tgagtcaatt 1440
acatatgaca tagcatgaat cactctttac agaaaatgta ggaaacccta gaatacagac 1500
agcaatattt tatattcatg tttatcaaa tgagaggact tatattccta catcaagtta 1560

```

```

ctactgagag taaatatttatt ttgagtttta tcccgtaagt tctgttttga ttttttttaa 1620
aaaacaaacc ctttttagtca ctttaatcag aattttaa atgtcatgtta cataccaaat 1680
tataatatct aatggagcaa tttgtctttt gctatatctt ccaagattat ctcttaagac 1740
catatgcccc ctgttttaaat gtttcttaca tcttggtttt actcatttct gactggacaa 1800
agtctttcca aacaattctg agaaacaaaa acacacacgc agaattaaca attcttttcc 1860
ctgtgcttct tatgtaagaa tcctcctgtg gcctctgctt gtacagaact gggaaacaac 1920
acttggttag tctcttttaa gttacaaaaa gccaatgat gtttcttatt ctttttaaat 1980
tttaaatatt ttgttataaa tactcacagg ataccttatt tccctagcta tcctctcctg 2040
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```

```

<210> 38
<211> 434
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (325)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (403)
<223> n equals a,t,g, or c

```

```

<400> 38
gggcttatag ataaataactt gctttttttc tataacctgt agacttattt cctttgatta 60
taatgctatt gacactttga taactgtttc tctaaaacct tacaagaaaa actaagcttc 120
tctaaacttg tattcattat gggagaatgc cattcttatg tctggttata tctgcattag 180
gttattgatg atgctagtaa caatgaactt tatgttactg cagctcacia atgctttttt 240
acatctgcaa gaaattaact agtcatcaaa tgcttagtag cacagaaatt ctcaagtggg 300
tgcggggaaa tattgatcyg caggnrtaaa ttcttcctta aaaataaggg targcaaatg 360
gcmtwtttta aaaaagggrg gatwtttggg atggtaatgg tnggggggta ctaaaagggt 420
ttagcccca tagg 434

```

```

<210> 39
<211> 1078
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (877)
<223> n equals a,t,g, or c

```

```

<400> 39

```

```

aggaagtaat tgagagtgtt ggcaacaagg ctgaantata gagaagtgtt aggattaact 60
ttttcgccca aagcagcttc acccacgttt tattcccatc gagggagkga gaatgggtgc 120
cgctgagtgg gcgggggagt ggtccctgaa agaggtggag tgctacagcc cctccccgtt 180
ggctctcgct gtttgtccgt tggtggttta tactaatttg acaacagccg cctgttgagt 240
ctcctccaga tcgcagctga aggatctgtt gagcgcttca ggaaaggcgg tgagatccsg 300
taccgcagca gagcactctc agctctgggt cttgcaggcg cagggctccc ccatgccagc 360
agaaagattt cctctggtga agaggaccgt cgaatctgtc ctcctcaaga cacctcttgt 420
acagaattta ttcgaatgcc acggccaagg tcttccttga aaaatgttaa ccgatgtgtg 480
ctttttgtct tttgtcatcc tttcttttagg acaggcgaca ctaacagggtg aagatctcgg 540
gagaccatga ctaagaaaaag aattgctgtg attgggggag gagtgagcgg gctctcttcc 600
atcaagtgtt gcgtagaaga aggcttgagg acctgtctgc tttgaaagga ctgatgacat 660
cggaagggtt ctggagggtt caggaaaatc ctgaagaagg aagggccagt atttacaagt 720
cagtgatcat caatacttct aaagagatga tgtgcttcak tgactatcca atcccagatc 780
attatcccaa cttcatgcat aatgccccag gtccctggrg tatttcagga tgatgcca 840
agaatttgac cttctaaagt atattcgatt taagacnact gtgtgcagtg tgaagaagca 900
gcctgatttt gccacttcag gccaatggga agtggtcact gaatctgaag ggaaaaagga 960
gatgaatgtc tttgatggag tcatggtttg cactggccat cacaccaatg ctcacttacc 1020
tctggaaagc ttccctggtg agcagcttac caggaaggaa gacccttgac tccacgcc 1078

```

<210> 40

<211> 1976

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1058)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1919)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1934)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1957)

<223> n equals a,t,g, or c

<400> 40

```

ggcgtaagac cggaggggacg cggcggttagc ggcggccgtt gcgattgatt gcgctggttg 60
cctgcggcgt ccacttcctt ggccgccctt gctacactgg ctgattgttg tgcagccggc 120
gccatgtctg tgagcgagat cttcgtggag ctgcagggct ttttggtgc cgagcaggac 180
atccgagagg aaatcagaaa agttgtacag agtttagaac aaacagctcg agagatttta 240
actctactgc aaggggtcca tcagggtgct gggtttcagg acattccaaa gaggtgtttg 300
aaagctcgag aacatttttg tacagtaaaa acacatctaa catctttgaa gaccaaattt 360

```



```

cctgctgaac agtattacag atttcatgag cactggaggt ttgtgttgca gcgcttggtc 420
ttcttggcag catttggtgt gtatttgga acagaaacac tagtgactcg agaagcagtt 480
acagaaattc ttggcattga gccagatcgg gagaaaggat ttcatctgga tgtagaagat 540
tatctctcag gagttcta atcttgccagt gaactgtcga ggctgtctgt caacagcgtg 600
actgctggag actactccc acccctccac atctccacct tcatcaatga gctggattcc 660
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gagacggcag cagcttgtgt tgaaaaatag gaggtctctc ttgctcctgg ccttgctgac 840
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gttgctaaac actgcgcttt attttcttaa ccagttgtgg tgtgagtatc agaattgaaa 960
cacttttttg ggggtaaaaa atatagcctt tacatggaca gaattttttt tgttgtttca 1020
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caaggaaaac ttattttata ttttcccttc cttattttta gcattgtgag taaatcagat 1320
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taaaagatta aactgcgaag tcaagctcaa cagattattt tggaaagttt ttgtattaag 1440
ggatttagta acatcatttt gttttccacc aggcaggagg tagggcttag tgttttaaaa 1500
cacctctgct ttctgatgtt gccttaatat tctgctattg cagcaattaa aaattgtctt 1560
catgtacatt tggaactaac acgtgatgtg atatatcct aaactatgaa acctttttcc 1620
tagtagtcag ctagatcatt tgttcyggga gtataaagcc acccacgtaa gttaataagc 1680
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aatagtgaat tataaataag tcaggccggg cgtgggtggc cacacygtga atcccagcac 1800
actgggaggc cgaggcaggg ggactgcttg agctcaggag ttcgagacca gcctgggcaa 1860
caaagtgagg actccatctc tatatgaaaa acaaaaacca cggaaaaggca cacacaaant 1920
aaatccagtg gggntttggt aaatgtgttt tagagtnagg aaatttccag gttgtt 1976

```

<210> 41

<211> 2310

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (681)

<223> n equals a,t,g, or c

<400> 41

```

cggacgcgtg ggcggacgcg tgggttgga tttgggcttc agccccataa gattccagac 60
acagaaactc tctgctatgt tatgccatca tccagtgcaa gatgtgctca gtttccctga 120
gcccaagaca aagttcatta ctacataaaa ctgaaggact taagagatca gttgaaaggc 180
attgaacgaa atatggacgt tcaagaggty caatatacat ttgacctaca gcttgcccar 240
gaggatgcaa agaagatggc tgtaaggaa gaaaaatatg atccagggtta tgaggcagca 300
tatggtggtg cttacggaga aaatccatgc agcagtgaac cttgtggcct ctcttcaaat 360
gggctaattg agagcgtgga gttaaggagg aatcagctt tcagtggcat tccaatagg 420
cagtggatga cccagtcatt tacagaccaa attccttctt ttagtaatca ctgtggaaca 480
caagaacagg aagaagaaag ccatgcttaa gaatgggtgt tctcagctct gcttaaatgc 540
tgcagtttta atgcagttgt caacaagtag aacctcagtt tgctaactga agtgttttat 600
tagtatttta ctctagtggg gtaattgtaa tgtagaacag ttgtgtggta gtgtgaaccg 660
tatgaaccta agtagtttgg naagaaaaag tagggttttt gtatactagc ttttgtattt 720

```

```
gaattaatta tcattccagc tttttatata ctatatattca tttatgaagg aaattgattt 780
tcttttgggg agtcactttt aatctgtaat tttaaaatac aagtctgaat atttatagtt 840
gattcttaac tgtgcataaa cctagatata ccattatccc ttttatacct aagaagggca 900
tgctaataat taccactgtc aaagaggcaa aggtgttgat ttttgatat gaagttaagc 960
ctcagtggag tctcatttgt tagtttttag tggtaactaa gggtaaaactc agggttccct 1020
gagctatatg cacactcaga cctctttgct ttaccagtgg tgtttgtgag ttgctcagta 1080
gtaaaaactg gcccttacct gacagagccc tggcttttga cctgcttcag ccctgtgtgt 1140
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cttttgccac tcatctgtgt tttacttgag acatgtaaat atgataggga aggaactgaa 1260
tttctccatt catatttata accattctag ttttatcttc cttggcttta agagtgtgcc 1320
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actctcattt aaactgggtc tttatgtaca tragaatgta ctaaaataag taatatagaa 1440
tttlycttgc taggtaaatc cagtaagcca ataattttta agattcttta tctgcatcat 1500
tgctgtttgt tactataaat taaatgaacc tcatggaaaag gttgaggtgt atacctttgt 1560
gattttctaa tgagttttcc atgggtgtac aaataatcca gactaccagg tctggtagat 1620
attaaagctg ggtactaaga aatgttatgt gcacctctc agttactcct gaatattctg 1680
atttcatacg taccagggga gcatgctgtt ttgtcaatca atataaaata tttatgaggt 1740
ctccccacc cccaggaggt tatatgattg ctcttcyctt tataataaga gaaacmaatt 1800
ctwattgtga atcttaacat gcttttttagc tgtggctatg atggatttta ttttttccta 1860
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tggaacgttt gtgcgggtgc tttgaagtgc cttgcatcag ggattaggag caattaaatt 1980
attttttcac gggactgtgt aaagcatgta actagggtatt gctttggtat ataactattg 2040
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atccactaga gatgggtttg aggattttcc aagcgtgtaa taatgatgtt tttcctaaca 2160
tgacagatga gtagtaaatg ttgatatact ctatacatga cagtgtgaga ctttttcatt 2220
aaataatatt gaaagatttt aaaattcatt tgaaagtctg atggctttta caataaaaga 2280
tattaagaat tgtaaaaaaa aaaaaaaaaa 2310
```

<210> 42

<211> 406

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (46)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (350)

<223> n equals a,t,g, or c

<400> 42

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gggcacgnag cacgtcaagg acacctgagt tctccaacag acgggnaacg ccaagggcat 60
tcacagttct gggaggtgat ctctgatgaa catgcyatcg actccgctgg cacctaccac 120
ggggacagcc acctgcagct ggagcgcacg aacgtgtacy acmacgaggc cagcgggtggc 180
aggtacgtgc cccgcgctgt gctcgtggat ctggagccgg gcaccatgga ctctgtgcgc 240
tcggggcyct tcgggcaggt cytcaggcca gacaacttca tcttcggtga gctgygggcyg 300
arsactgggg tgccggctcct tagccagggc agctcaaaat ccaggaacgn tccaaggtaa 360
tcctgtggga actgtggcgc agggccctga acaacctcct atccgt 406
```

<210> 43

<211> 627

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (597)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (614)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (617)

<223> n equals a,t,g, or c

<400> 43

```
aaacaataga aagcaacagt tcagagcact gcatcaagtg tactgtgctg gaaagggtccg 60
ccataggaaa tatggtcctc catactcctc agacaacagc cttccgaaag caaacctgtc 120
cctacctgca gatgattaac catctatgaa ccggctgggt aagcaacaag tgccatcttt 180
catggagctg agccttaaaag atcctccagt cctaaagctg acgggaagaa ggtaggtggg 240
agcagcgtg aggttttttg aacgtcctca agtgctgtga caccgataaa ctcatctttg 300
gaaaagggaac ccgtgtgact gtggracca gaagtcagcc tcataccaaa ccatccgttt 360
ttgtcatgaa aaatggraca aatgtcgctt gtctggtgaa ggattctacc ccaaggrrtat 420
aagaataaat ctctgtgcat ccaagaagrt aacagagttt gatcckgcwa ttgtcatctc 480
ycccagtggg aagtacaatg ctgtcaactt gggtaaatat gaagattcaa attcagtgc 540
atgttcagtt caacacgaca ataaaactgt gcactccact gactttggaa gtgaagncag 600
attctacaga tccngtnaaa ccaaggg 627
```

<210> 44

<211> 745

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (411)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (731)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (743)

<223> n equals a,t,g, or c

<400> 44

```

gactcgtcgc accgaagccg ccgccaccac cgcgcctccg cctcggccgc cgccgcagct 60
gctcctggtc cccgtccctt tgccgccctc gtcakgccag ctctcctgcg ccgccgcctc 120
ccgccgcgcc ccgccatgcc gctctactcc gttactgtaa aatggggaaa ggagaaattt 180
gaaggtgtag aattgaatac agatgaacct ccaatggtat tcaaggctca gctgtttgcg 240
ttgactggag tccagcctgc cagacagaaa gttatggtga aaggaggaaac gctaaaggat 300
gatgattggg gaaacatcaa aataaaaaat ggaatgactc tactaatgat ggggtcagca 360
gatgctcttc cagaagaacc ctccagccaaa actgtcttcg tagaagacat ngacagaaga 420
acagttagca tctgctatgg agttaccatg tggattgaca aaccttggtgta acacttggtg 480
catgaatgcc acagttcagt gtattcgttc tgtgcctgaa ctcaaagatg cccttaaaag 540
gtatgcaggt gccttgagag cttcagggga aatggcttca gcgcagtata ttactgcagc 600
ccttagagat ttgtttgatt ccatggataa aacttcttcc agtattccac ctattattct 660
actgcagttt tgcacakggc tttccacagt ttgccgrgaa aggtggaaca aggacagtat 720
cttcaacagg ntgctaattg aangt 745

```

<210> 45

<211> 467

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (461)

<223> n equals a,t,g, or c

<400> 45

```

agtgttcaag gagcaagagc ttcanctga agacaaggga gcagtccttg aagacgcttc 60
tactgagagg tctgccatgg cctctcttgg cctccaactt gtgggctaca tcctaggcct 120
tctggggctt ttgggcacac tggttgccat gctgctcccc agctggaaaa caagttctta 180
tgtcggtgcc agcattgtga cagcagttgg cttctccaag ggccctctga tggaatgtgc 240
cacacacagc acaggcatca cccagtgtga catctayagc acccttcttg gcctgcccgc 300
tgacatccag gctggccagg ccatgatggt gacatccagt gcaatctcct ycctggcctg 360
cattatctct gtgggtgggca tgagatgcac agtcttctgc caggaatccc gagccaaaga 420

```

cagagtggcg gtagcagggtg gagtcttttt catccttgga ngcctcc

467

<210> 46

<211> 722

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<400> 46

```

nnccctctag tectgggtcg cggccctgcc catggggtct caggccaggt ctctgctggc 60
agaggcggtg gtaaagtccc tgtaccccggt ctcacagggc acaagctccc tagcctcttt 120
ggatccattg cccctgagct cccagagtca cccctccacc tccgcagcca gtgaagtgtg 180
ttgtgcctgc tgaagtgatc acccccgcc cccagccctg catcaggcca caggtcttgg 240
ctttctcctt atcaccattt gctgttatca cggcacacag cagggaatcc caggccccc 300
cgccaagtgg ttaccaagt caccactcct gacccaaaaa tcaggcatgg cattaaaacg 360
ttgcaaattc ctttactgtt atcccccca ccaccaggac catgtagggt gcagtcttta 420
mtccctaacc cgtttccga aaaagggtgt acctcctttc cagacagatg agagagggca 480
ggacttcagg ctggatccac cactgggctc tccctcccc agcctggagc acgggagggg 540
aggtagcggc tggtagactg tggatgggta gtgggctgag aagaggggac taggaagggc 600
tattccaggc tcagccctgc tcctgcagct ttgccgctga gtgtaggaaa aacaggcatg 660
acagaccagg gtgagggttg tgccagctgg cyacggccat gcgtggggtg gcccaataaa 720
ca

```

722

<210> 47

<211> 1002

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (685)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (898)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (905)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (924)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (957)

<223> n equals a,t,g, or c

<400> 47

```
gtatgaggaa atccccaagc ggcgccggca gcgrggctca gaaacaggca gcgagaccca 60
tgagagtgat ctggctcctt cagacaagga ggctcccaca cccaaggagg gaacactcac 120
ccagggtccct ctgctcccc caccaccagg agccccacct tcaccagccc cagcccgtt 180
cactgccccg ggtgggagag tcttactcc cagaggggtgc catctcgccg gggccgagga 240
ggagggaggc cccctcctca agtttgccca ggctggagcc ctccagccaa gtctctggct 300
cccaagaaac ctcccacagg ccctttgccca ccaagtaagg agcctttgaa agagaagttg 360
atcccagggc ctctgtcccc tgtggcgcgc ggaggcagca atggaggtag caatgtgggc 420
atggaagatg gggagcgacc ccgaaggagg cgacatggga gggctcagca gcaggataaa 480
ccgcctcgtt tccggaggct gaagcaggaa cgggagaatg ccgcaagggg tctgagggca 540
agccctccct aacccttcca gcctccgctc ctggacctga ggaggccctc acaacagtca 600
cagtggcccc agcacctcgc cgggcagctg ccaagtctcc tgatctgtca aaccagaact 660
cagaccaagc caatgaggaa tgggnagact gcatcagaga gcagtgactt caccagttag 720
cgccgagggg acaaagaggc acccccacca gtactgctga cacccaaggc tgtgggaact 780
cctgggggar gtggaggtgg agccttacca ggtatttcag ccatgtyccg cggagatctg 840
agccagagag ccaagatttg agtaaacgga gcttctcaat tcagcgggcc agcattgnaa 900
ggcanattcg gcgccttggc ccanggggca aggttggcac attggcacca gcattgnaga 960
agccgttgga gttcttgaag aaggaccggg ccagacgagg ga 1002
```

<210> 48

<211> 2119

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2093)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2103)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2114)

<223> n equals a,t,g, or c

<400> 48

```

cagagaatta atttttttgt gtgctagggg agggagagtg aggagggagt gttatttcct 60
tggaaccta gggaggagag gttcctttgt tgggaaactt ttgttgatag ctgctgcctt 120
tgctctgatc gttttcttct cttttctctt ggtggcctgt tgggtgcaa gagctgatgg 180
catttgatct tgccccattc aggttgggga gtgaagtgtg aggacccttt tccccgctt 240
gctgtgaaag cacagattca ttgactacag tacactgttg ttcagaaaag aaggctgcaa 300
atgacttctg agactttatg tcttttcttc cagaccaaga ccgtagaagg agtcacatct 360
agccggctta gccaaagtac aggtgtatat agttcagggc acttgattta gatttggagg 420
ggctggggtg ggcagagagc aagaggcgag taaagagaat ggtggtttca gagatctctc 480
ttcccaaatg tgtaaatatt ctataaccaga taagttaaaa taagaaatth aattgctgct 540
taatttttga ttatgtactt tatctgtata gcaggctttg tcgtcagaag tttttatctc 600
gatttaaat gctgctcttt agcascaaac aggagcaaaa tgtaaaatth ttgaacttac 660
tgtgtctaata catcatttgt tagtctgtag ttaatgtcaa cagttaatth atgaaccac 720
gatcgttcca cactgcacca aagtcagtca taagagaaat cgaatattct ggagcactga 780
ttgcagcagg gtggctcctt tgtgtgcagc aggtgtagta gtcttcattt tcatggtacg 840
ttttaatat aattaccta gctgccatgc attttttttt ttacagttct caaggtagag 900
cacagaacaa tttctcattt catatttgg gatatgaaag agattctatt ttgtaatgct 960
gataatacct aaagatgcat tgaatgcttg gaagaatgct ttttgatggt gattttgacc 1020
tgttcatgat tcagaagaaa aacaaacttt tttggatttt ttttccctca ggtctgagta 1080
gcattgcctt aaatcttctc cagttagaac attgatttat ttacatgatg ttcagatttt 1140
ccagtgaaaa atacccttct gaacaaaaca tgtacttact ctccgaaagg catctatctg 1200
tgctattgca aacactcctt gagatttttag gggaaattcta atgttgtagc ctttcgtggc 1260
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cttgtaaatg tatgtttgag gagtttgaac gtcagtgtgc acttaccac aaagttattc 1440
aagttgtaaa aggttatata ataatttaac aactaccctt tttattctgt cgggttactg 1500
acctcacttt atgtaaatat ttcgcatgac aaattcagta actcgtctat ttcagcatgc 1560
ataagacttt ttagtaggga aactgataaa gcttgagtca actaaatctg ccttcatact 1620
ttatcaagg gaaccaagcc tgctgtgctt acatcagcat ctggaagact ttctctctct 1680
ctaactctg tacacatctc caagcaagga agaaaaaaca aactctgctc agacgcctat 1740
gaaacacctg aatgaacttt gatgaagtac agtctgagtt accatcatgc acaagtagaa 1800
ctgctcttgg acttgtttct ctggtgtttg tggaaacctac gcgtttgaat ggcttgaacg 1860
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gtacttgga agatgttata gtggtttctt ttaggaaaat ctgtcattaa aaaagttata 2040
gccttgcaaa taacaaaaaa aaaaaaaaaa aaaaaccgg gggggggccc ggnaccat 2100
tcncccaaaa gggnggcgg 2119

```

<210> 49

<211> 494

<212> DNA

<213> Homo sapiens

<400> 49

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aagtcaggct tgagaaagta gaaggctgag tccttcaagg tagaagagcc tgagctccag 60
acataaaagg gaaactggag acttgtttct ttggcctatt cattctgttt tttttccct 120
gatcaaaagaa accaaagaca gaagatgtag gatgcaggag caatagttag cagtcacccc 180
ataatagact ggattcttct gtttctataa aggaacctca gaagctctta cctcaccttc 240
aagccttttc cttaccctga gagcctcctt taattgtctc ttctttttca ggccaagagg 300
cccagacaga gttgccccag gccggatca gctgcccaga aggcaccaat gcctwtcgtt 360
cctaywgyta ytactttaat ggaagaccgt ggagacctgg gttgatgcag atgtgagtga 420
ggagagcatk tggggaggga gattcatgaa gggaggggag ttgccatttt ccatgtgttc 480

```

aattggttgc aatg

494

<210> 50

<211> 1342

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (99)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (381)

<223> n equals a,t,g, or c

<400> 50

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caagttgttc tttgtttcca gcttgcattg attgctacaa catcactaat ttggactttc 60
acattttaat ggttctgtgc taatcaaaac ttctgttgnt attattcgtt atggtagaat 120
cattttttaat tcacgtgctt tgtgttcagt ttgtgggtct gagagatgta ccaattgtca 180
aattaccgtg taccacctaa tgtttatagg agaaagcaaa atacatcagc ttggtagtta 240
acacatcaaa tatttcttgc tgcttctagg agaacttttt tgggtgtgtg ttggaatggct 300
gagcaaatat taaaattgtt aatatgcagc catatatgga aggttcctgt ggggttgttt 360
tttcgtgttt tttttttttt ngtggkggga ttatgtgcct cccattcact agaaaatgag 420
aaaattgtct gggttccaaa atattgacat tgaatggatc aatacacaca cacagacata 480
tatatatata tgcacacata tataggcagt tgcattgtag catgggtatt tttataacaa 540
tataactgag ttatatggga attataaata ttttcygtca cttaaatttg ttctttgttt 600
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taaaccacta gttgatgtat ggtatcttta gatatttgcc tgtctgtttg ctcaaaattg 1260
cttctaaaac aataaagatt cttttatttc ttaaggcaaa aaaaaaaaaa aaaaaaaaaa 1320
aaaaaaaaaa aaaagggaga gg                                     1342
```

<210> 51

<211> 1527

<212> DNA

<213> Homo sapiens

<400> 51

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gtccccgctc ggcctggcca ggcccgctct atggagttcc tctgggccc tctcttgggt 120
ctgtgctgca gtctggccgc tgctgatcgc cacaccgtct tctggaacag ttcaaattcc 180
```



```
aagttccgga atgaggacta caccatacat gtgcagctga atgactacgt ggacatcatc 240
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ctggtggagc atgaggagta ccagctgtgc cagccccagt ccaaggacca agtccgctgg 360
cagtgaacc ggcccagtg caagcatggc ccggagaagc tgtctgagaa gttccagcgc 420
ttcacacctt tcacctggg caaggagttc aaagaaggac acagctacta ctacatctcc 480
aaacccatcc accagcatga agaccgctgc ttgagggtga aggtgactgt cagtggcaaa 540
atcactcaca gtccctcaggc ccatgacaat ccacaggaga agagacttgc agcagatgac 600
ccagagggtg ggttcttaca tagcatcggc cacagtgtgc cccacgcct cttcccactt 660
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gccacgtgt atagtatctg tatataagtt gctgtgtgtc tgtcctgatt tctacaactg 1440
gagttttttt atacaatgtt ctttgtctca aaataaagca atgtgttttt tcggaaaaaa 1500
aaaaaaaaa aaaaaaaaaa aaaaaaa 1527
```

<210> 52

<211> 630

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (556)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (628)

<223> n equals a,t,g, or c

<400> 52

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ggtttttttc tcacctgac tgcaagatga aactccttgt gctagctgtg ctgctcacag 60
tgcccgccgc cgacagcggc atcagccctc gggccgtgtg gcagttccgc aaaatgatca 120
agtgcgtgat cccggggagt gacccttctt tggaatacaa caactacggc tgctactgtg 180
gcttgggggg ctcaggcacc cccgtggatg aactggacaa gtgctgccag acacatgaca 240
actgctatga ccaggccaag aagctggaca gctgtaaatt tctgctggac aaccctgaca 300
cccacaccta ttcatactcg tgctctggct cggcaatcac ctgtagcagc aaaaacaaag 360
agtgtgaggc cttcatttgc aactgcgacc gcaacgctgc catctgcttt tcaaaagctc 420
catataacaa ggcacacaag aacctggaca ccaagaagta ttgtcagakt tgaatatcac 480
ctctcaaaag catcacctct atctgcctca tctcacactg tactctcaa taaagcacct 540
tgttgaaaga cmaaaanaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 600
aaaaaaaaa aaaagggggg ggggggggnc 630
```

<210> 53
<211> 575
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (575)
<223> n equals a,t,g, or c

<400> 53
cggactcctg ccaggggttg gtgcgccgct gaacggatgg ctgagggagc cccgcggatc 60
gtttaggaaa gccggccagc tgatcgtcgt gtgttgccac ccattcatgt caagatgact 120
aagtttggat ttttgcgatt gtcctatgag aagcaggaca cacttttgaa gcttctcatt 180
ctgtcaatgg ctgctgtatt atccttctcc actcgtctgt ttgctgtcct gagatttgaa 240
agtgttatcc atgagtttga tccgtacttt aattatcgga ctaccagggt cctggctgag 300
gagggggttt ataaattcca taactggttt gatgaccgag cctggtaccc tttgggacga 360
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ctccattttt tccacatcac catcgacatt cggaatgtct gtgtgttcct ggcccctctc 480
ttctcctcct tcamcamcat cgtcacgtac caccttacca aagagctcaa ggatgcaggg 540
gctgggcttc ttgctgctgc catgattgct gtagn 575

<210> 54
<211> 2934
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2767)
<223> n equals a,t,g, or c

<400> 54
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gggggctgaa gagcgcccg ccctctcgtc ccactttcca ggtgtgtgat cctgtaaaaat 120
taaactcttc aagatgatct ggtatatatt aattatagga attctgcttc ccagctcttt 180
ggctcatcca ggctttttta ctcaattgg tcagatgact gatttgatcc atactgagaa 240
agatctggtg acttctctga aagattatat taaggcagaa gaggacaagt tagaacaagt 300
aaaaaaaaatg gcagagaagt tagatcggct aactagtaca gcgacaaaag atccagaagg 360
atgtgttgga catccagtaa atgcattcaa ataatgaaa cgtctgaata ctgagtggag 420
tgagttggag aatctggtcc ttaaggatat gtcagatggc tttatctcta acctaacat 480
tcagagacag tactttccta atgatgaaga tcagggtggg gcagccaaag ctctgttacg 540
tctccaggat acctacaatt tggatacaga taccatctca aagggtaatc ttccaggagt 600
gaaacacaaa tcttttctaa cggttgagga ctgctttgag ttgggcaaag tggcctatac 660
agaagcagat tattaccata cggaaactgt gatggaacaa gccctaaggc aactggatga 720
aggcgagatt tctaccatag ataaagtctc tgttctagat tatttgagct atgsgtatg 780
cagcagggag acctggataa ggcaactttg ctcacaaaga agcttcttga actagatcct 840
gaacatcaga gagctaattg taacttaaaa tattttgagt atataatggc taaagaaaaa 900
gatgtcaata agtctgcttc agatgaccaa tctgatcaga aaactacacc aaagaaaaaa 960
gggggttgctg tggattacct gccagagaga cagaagtacg aaatgctgtg ccgtggggag 1020

```

ggtatcaaaa tgaccctctg gagacagaaa aaactctttt gccgctacca tgatggaaac 1080
cgtaatccta aatttattct ggctccagct aaacaggagg atgaatggga caagcctcgt 1140
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gtcttaactt tcaggagttt acaattgact aacctccat gattgattca gtcatgaacc 1860
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aacaatgacc tatttatgat cttaaactct ttttaaaaaa atgtttgtt tctgtgtggt 2760
gttttngta ttaaatccg aatgtatgat gtggcagtaa caggttaact tatgtaattt 2820
ctttagtaca tagggcttag gtttatactc ttggtttcca ctcacactaa tgcacatgg 2880
ttaagaaaaa cttaggctct ctgaagtttc agatatttca tgaatcaaga tgtg 2934

```

<210> 55

<211> 575

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<400> 55

```

ggtaangcta tttggtttta ckascargct ctggaatatt tagcagtcatt tttcactggc 60
acaagagcct tttgtatgtt attcaattta aacttttaaa ccaaaaattt tatgggtccag 120
tgtctttggc aaaaagatgc tggagggaat gtaacataca attaatatgt ggttatatat 180
atatataaaa agacacaaat tgccatgtta tggttctgcc ttgaaacagc acaatgaagt 240
gtatcagtat attctgtgat tatgaaactt atatgttggt ttgttttggt tcttctgttg 300
cctgtccttt gggccagatg tgggccagtt aaatgcagtt atcatctcat taaatacaga 360
tgcagataaa atatcttttag tgctgcaaca ttttacctaa ctttttggtat gttttcatga 420

```

```

ctgtgtgttta ttttccaaag ctgttcctac ctcaccatga ggctttatgg attgttatgt 480
attataaatg ttctatatga gacagactac tgtgtttctt ctcatttatt aaaagttaag 540
tagaaaaata aactaatttt aatatctaaa aaaaaa 575

```

```

<210> 56
<211> 1140
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (563)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1115)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1119)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1135)
<223> n equals a,t,g, or c

```

```

<400> 56
gattctgcgt gcgcaaattt tatttttctt cccgtacttt atctacagct gcattctggg 60
actgatattc tgttccggtg ttctgcggg taaactatga gctgaagatg ttgatcatga 120
tggtggcctt ggtgggctac aacaccatcc tactccacac ccacgcccac gtcctgggga 180
ctacagccag gtcttatttg agagaccagg catttggaag gacctgaaga ccatgggctc 240
tgtgtctctc tctatattct tcatcacact gcttggtctg ggtagacaga atgaatatta 300
ctgtaggtta gacttcttat ggaagaacaa attcaaaaaa gagcgggagg agatagagac 360
catggagaac ctgaaccgcg tgctgctgga gaacgtgctt cccgcgcacg tggctgagca 420
cttcctggcc aggagcctga agaatagagga gctataccac cagtcctatg actgcgtctg 480
cgtcatgttt gcctccattc cggatttcaa agaattttat acagaatccg acgtgaacaa 540
ggagggcctg gaatgccttc ggntcctgaa cgagatcatc gctgactttg atgatcttct 600
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agcaacaggt ctgagcgtg tgcccagcca ggagcactcc caggagcccg agcggcagta 720
catgcacatt ggcaccatgg tggagtttgc ttttgccctg gtagggaagc tggatgccat 780
caacaagcac tccttcaacg acttcaaat gcgagtggtg attaaccatg gacctgtgat 840
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ggccagtagg atggacagca ccggagtcct ggacaaaata caggttaccg aggagacgag 960
cctcgtcctg cagaccctcg gatacacgtg cacctgtcga ggaataatcc aacgtgaaag 1020
ggaaaggggg acctgaaaga cgtactttgt taaacacaga aatgttcaag gttccctttt 1080
cccagagcaa cgtgggcatt cctgaaagag ttcancctnc atttttgggc caagnaagac 1140

```

```

<210> 57

```

<211> 255
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (251)
<223> n equals a,t,g, or c

<400> 57
agcggsttg tgggtgtgag tgtcctgttg ggggctgtct ttggcaagga ggactttgtg 60
gggcatcagg tgctccgaat ctctgtagcc gatgaggccc aggtacagaa ggtgaaggag 120
ctggaggacc tggagcacct gcagctggac ttctggcggg gscctgcccc ccctggctcc 180
cccattcgacg tccgagtgcc cttycccagc atccaggcgg tcaagatctt tctggagttc 240
cacggcatca nttat 255

<210> 58
<211> 1254
<212> DNA
<213> Homo sapiens

<400> 58
ggtcacgagg gcagcatgcg ggggttgctg gtgttgagtg tcctgttggg ggctgtcttt 60
ggcaaggagg actttgtggg gcatcagggtg ctccgaatct ctgtagccga tgaggcccg 120
gtacagaagg tgaaggagct ggaggacctg gagcacctgc agctggactt ctggcggggs 180
cctgccccacc ctggctcccc catcgacgtc cgagtgccct tccccagcat ccaggcggtc 240
aagatctttc tggagtccca cggcatcagc tatgagacca tgatcgagga cgtgcagtcg 300
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gctgtgacag ccctggcctc tctctacggg accaagtcca actatggcag catcatcaag 1080
gcaatttatc aagccagtgg aagcactatt gactggacct acagccaggg catcaagtac 1140
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atcatcccca cagccaatta ggggtgattca aggtgtctaa ttctagatcg cgaa 1254

<210> 59
<211> 1190
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature

<222> (1122)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1172)

<223> n equals a,t,g, or c

<400> 59

```
agggccgccg tccagagccg ccattctgtg ggagcaaac caacgcctgg ctccggagcag 60
cagcctctga ggtgtccctg gccagtgtcc ttccacctgt ccacaagcat ggggaacatc 120
ttcgccaacc tcttcaaggg cttttttggc aaaaaagaaa tgcgcctcct catggtgggc 180
ctggatgctg cagggaagac cagcatcctc tacaagctta agctgggtga gatcgtgacc 240
accattccca ccataggctt caacgtggaa accgtggagt acaagaacat cagcttcact 300
gtgtgggacg tgggtggcca ggacaagatc cggccctgtt ggcgccacta cttccagaac 360
acacaaggcc tgatcttcgt ggtggacagc aatgacagag agcgtgtgaa cgaggcccgt 420
gaggagctca tgaggatgct ggccgaggac gagctccggg atgctgtcct cctggtgttc 480
gccaacaagc aggacctccc caacgccatg aatgcggccg agatcacaga caagctgggg 540
ctgcactcac tacgccacag gaactggtac attcaggcca cctgcgccac cagcggcgac 600
gggctctatg aaggactgga ctggctgtcc aatcagctcc ggaaccagaa gtgaacgcga 660
ccccctccc tctcactcct cttgccctct gctttactct catgtggcaa acgtgcggct 720
cgtggtgtga gtgccagaag ctgcctccgt ggtttggtca ccgtgtgcat cgcaccgtgc 780
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ccaatcgga acattgaaca cacagaaggg gacccgctag cnagatttgc agtacggcct 1140
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```

<210> 60

<211> 580

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (530)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (575)

<223> n equals a,t,g, or c

<400> 60

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attcggcaca ggccgggacc ggaagtctaa gtggaatccc ggttggttg gggcgaggc 60
ttccaacttc gtactctggc ctctgcgtct cggctcgtcg gttgggtacc cgaaccagc 120
tactgtgctt tgaagagaag atggatgggg actcctcgcc gtcgctgcgc cgccggcctt 180
ccctgggcgg acgtacacct ttgcgaacgt cagtggaggc ccaggggccc tccttggaat 240
agctcttatt tctcaagcgc tgcagcgtga agctcgtctt gcgggtccga gaggcctgac 300
```

```

atctgaagac tgaaaactgg gaagagacgc tctaccctgt gctcctcgcc ggcttcgata 360
ggagccgcag tgcctgggat tttctcaaac tttgtcccaa acttcagctg tgggagtggg 420
ggaacaaaca ggcctctccc agaattgtga aagagatcgc cctggtggat gaaacaaaaa 480
caaatgcact tgacttcmac gccttgcctg gcgttgtcac gcgggggttn aatgtatgtg 540
gccacatttt aaattccaaa gtattttctt ctaangggct 580

```

```

<210> 61
<211> 453
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (403)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (418)
<223> n equals a,t,g, or c

```

```

<400> 61
ttggctcaca ttcatgtctt gtttttgta ctggtttgaa gactaaaagg cacgggttca 60
aataagattg gtctctttgg ttggagacta tttctgggtt cattcagttg ttcaagaaac 120
attagttaag cacctactgt tgctagacac tatgctagat actgaggata atgaaggtaa 180
gattgatata gtccctgccc ttatggagct tatagtctca tgtggtctta gtgaacaaag 240
tctcaatttg cttttatact agaaataata aagaaagctg ccttgctgta ttcgatcagt 300
taaaatcagc aatttgtgct tttgtatcag taaaacattt agttctcacc ttttgaatat 360
gccaaaccag gaagggatta canccccccc attttgggcg ganaagggtt ccgttcgnga 420
gacattttcc aattttgggg gacttcactt tcc 453

```

```

<210> 62
<211> 2593
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c

```

```

<400> 62
cccttgacat ggaaaacatn agaacctgag ctgctgttaa tcacctcaa tcagccggtt 60
caaccagccc cattctggcc gcggtcagat ccttgcatcg ggaagctacc aagtgggtcta 120
gtaagggcaa tgacatcatt gcagcagcca agcgcattgg tctgctgatg gctgagatgt 180
ctcggttgtt aagagggggc agtggtagca agcgggcact cattcagtgt gccaaaggaca 240

```

```

tcgccaaggc ctcagatgag gtgactcggg tggccaagga ggttgccaag cagtgcacag 300
ataaacggat tagaaccaac ctcttacagg tatgtgagcg aatcccaacc ataagcacc 360
agctcaaaat cctgtccaca gtgaaggcca ccatgctggg cgggaccaac atcagtgatg 420
aggagtctga gcaggccaca gagatgctgg ttcacaatgc ccagaacctc atgcagtctg 480
tgaaggagac tgtgcgggaa gctgaagctg cttcaatcaa aattcgaaca gatgctggat 540
ttacactgcg ctgggttaga aagactccct ggtaccagta ggcacctggc tgagcctggc 600
tggcacagaa acctctacta aaaagaagga aaatgatctg agtcccagga gctgccaga 660
gttgctggga gctgaaaaat cacatcctgg cctggcacat cagaaaggaa tgggggcctc 720
ttcaaattag aagacattta tactcttttt tcatggacac tttgaaatgt gtttctgtat 780
aaagcctgta ttctcaaaac cagttacact tgtgcacctt ctatcccaat aggagactg 840
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ctgctctgcc cttgttccct aggggacact tccctctgtt tctctttcct tggctcccat 960
tcactcttcc agaattccaa gaccagggc ccaggcaaat cagttactaa gaagaaaaat 1020
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ctgggctgtg ctacctgggt ccttttcaga agtgagcttt gctgctacag gggaagggtg 1140
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catatcctgc ctacgcccgc caaggtagcc atcccatgaa cacactgtgt cctggtgctc 1380
tctgccactg gaagggcaga gtagccaggg tgtggccctg ccatcttccc agcagggcca 1440
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attcttagct cttaattgtt cattttgagc tgaaatgctg cattttaatt ttaacaaaa 1560
catgtctcct atatcctggg ttttgtagcc ttctccaca tcctttctaa acaagatttt 1620
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aagaaagagg agtgcttgtc ccctaagagt gtttaatggc aaggcagccc tgtctgaagg 1740
acacttctcg cctaaggagg agtggtattt gcagactaga attctagtgc tgtctgaagat 1800
gaatcaatgg gaaatactac tcctgtaatt cctacctccc tgcaaccaac tacaaccaag 1860
ctctctgcat ctactcccaa gtatggggtt caagagagta atgggtttca tatttcttat 1920
caccacagta agttcctact aggcataatg agagggcagt gtttcctttt tggacttat 1980
tactgctaag tatttcccag cacatgaaac cttatttttt cccaaagcca gaaccagatg 2040
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ttcccaacat cgaatgtgta caacttaagt tggctcctta cactcaggct ttcactattt 2160
cctttawaat gaggatgatt attttcaagg ccctcagcat atttgtatag ttgcttgctt 2220
gatataaatg caatattaat gccttttaaag tatgaatcta tgccaaagat cacttggtgt 2280
tttactaaag aaagattact tagaggaaat aagaaaaatc atgtttgctc tcccggttct 2340
tccagtgggt tgagacactg gtttacctt tatgccggat gtgcttttct ccaatatcag 2400
tgctcgagac acagtgaagc aaattaaaaa aaaaaaaaaa aaaaaatccc tgaatgatga 2460
ttagagacat caccgctaaa aaactacatt tataagctag gatttggtat atgcaaatat 2520
tttctgcctc ttcttttggt ctgtttaaaa caataaaatg catttggtata aaaaaaaaaa 2580
aaaaaaaaactc gta 2593

```

<210> 63

<211> 1195

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (80)

<223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (83)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (115)
 <223> n equals a,t,g, or c

<400> 63
 ggtttctctt gcagttcaca gagaattggg gctctcttca tgcctgaaat ttgggggtcca 60
 tagtgaatat tttgttattn atnkkttgcc tcattcttta tatagtaatg gaaancataa 120
 gtctaggagt tagaaatgaa ttttttagac cttagtaaaa ccatttaacc ataaaatgga 180
 caactgagaa ttctcccagc tgcctgaaaag cgtcgccaac tgtggttatc ctgcaagctg 240
 ctacctgcaa cttggacgtt gtttccacgt gctctgctgg ctacgattct tgcattctgg 300
 gtttggtctt tttctgtgtc atcaactatg gttatcctct aaataggcat ttaatgaaac 360
 attgtacaaa ttgtcactca tttgatgaca cctgggaata acattagcag gctgatgtcc 420
 tgcaccatta tgtttactaa tcacatgttc tgtgtgctgt gacgactgtc aaagagtatc 480
 tggccatggc ggacactcag catttggtga ttgaataaat gttagctctt ctcatgtga 540
 aggactcact tttactggga taaacaaatg cagttaagaa ttctggcacc cttgtaagga 600
 agaaaagaga gttcaacacc ttcgagctctg agcgcttggt gctagagttt gccaggaggg 660
 aggaaaccag tgaccctgaa aactgagggt gcctcaggag cagtgggacc acctgatgct 720
 gaaggacgga ctaatgatgt ttctctctgc cttctctggg gcctccattg ccctcatgga 780
 acagagcata tcatagaggg agaaaagtca aacttgtaat tgtgtcttac agttactggs 840
 ttcatcttcc ttgggatata tggctatcct ctaatgagtg taaaagtgcg caaaacacat 900
 ccttattggt cctgatctct tagtcccata aatgggaaca aatacagctt tctgcttctt 960
 tctttttggg gaaaaggacag ggtgctagt agtactgaca gcatgccagc taccraagtc 1020
 acccagccat tcccatgagc agcagttcat ttaattgtca cagcgtcgcc mggaagaaga 1080
 tctgataaac ctagggtttac agatgaagaa agcaaaatgt agagatgttg ttgaggtcac 1140
 agaggtgact gcctaacttc agagcagggc ttctgatccc tttaagaaat tacgt 1195

<210> 64
 <211> 392
 <212> DNA
 <213> Homo sapiens

<400> 64
 acggcagtgct tcttgcttgt ttacatgcc aagtgtctctg tggaagaggt gacgaaaggg 60
 tggcatccct gggtaaagtaa gtgcctatga agaagtagcc caaccaatgg ctttgagca 120
 cacaatgtcc cagtggggaa actgagggcc agagagggga agggacatgt ccaagggtcac 180
 atggtgatgg gacaccagc gctggggccac tgggtccgtgc ctgacctcca gtgggtctgc 240
 cagccaaggg tgaggaaggc tgtggggagg ggaggtggcc aagtcaggct tccccctcca 300
 cctcgtcctc gctggcacag ccctcggaca cagctctgctg ccgggatgcc cgcctctcca 360
 ggtactctgc cttaagcygc tctacttcaa tt 392

<210> 65
 <211> 1290
 <212> DNA
 <213> Homo sapiens

<220>
<221> misc feature
<222> (229)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (231)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (233)
<223> n equals a,t,g, or c

<400> 65
ggaagggcag tcgtccgcgc tggctgggca gggagcggca cagcgagccg gggaccccgg 60
cgccgcccgc gcgcggcccc gtctgaggtc tggcagtcag agacagccgg gcgcccacgg 120
cccagcgcgc cagggcagca ccatgcccgc actcctggag cgccccaagc tttccaacgc 180
catggccagg gcgctgcacc ggcacattat gatggagcgg gagcgcaang ncnaggagga 240
agaagaggtg gataagatga tggaaacagaa gatgaaggaa gaacaggaga gaaggaagaa 300
aaaggagatg gaagagagaa tgtcattaga ggagaccaag gaacaaattc tgaagtggga 360
ggagaagcct ttggctctac aggaagagaa gcaccagcct ttcctgcagc tcaagaaagt 420
tttaccatgag gaagaaaaac ggaggcgaaa ggaacagagt gacctgacca ccctgacatc 480
agctgcatac cagcagagcc tgactgttca cacaggaact catctcctca gcatgcaggg 540
gagccctgga ggacacaatc gcccaggcac cctcatggca gctgacagag ccaaacaat 600
gtttggacc caagtgtta cgaccggca ctacgtggg tcagcagctg cttttgcagg 660
gacaccagag catggacaat tccaaggcag tcctgggtgg gcctatggga ctgctcagcc 720
cccacctcac tatgggcca cacagccagc ttatagtcct agtcagcagc tcagagctcc 780
ttcggcattc cctgcagtgc agtacctatc tcagccacag ccacagccct atgctgtgca 840
tggccacttt cagccactc agacaggttt cctccagcct ggtgggtgcc tgccttgca 900
aaagcagatg gaacatgcta accagcagac tggcttctcc gactcatcct ctctgcgcc 960
catgcacccc caggetctgc atccagcccc tggactcctt gcttcccccc agctccctgt 1020
gcagatgcag ccagcaggaa agtcgggctt tgcagctacc agccaacctg gccctcggct 1080
ccccttcac caacacagcc agaaccgcg attctaccac aagtgaccat cagattatat 1140
cttcaacacc acacccccca ccccatcgtg ggtgagggtg tcccctgtgt gtcccaggcc 1200
aataaaatct acctgccact gcmaaaaaaa aaaaaaaaaa ctcgactcgt gccgctcgtg 1260
ccaattcggc agagctcctt cttttgtttt 1290

<210> 66
<211> 716
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (93)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (98)

<223> n equals a,t,g, or c

<400> 66

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attcactgct gctcagcatg gctcagacca actcatgctt catgctgac tcctgcctga 60
tgttcctgtg tctgaagcca agggcaggag ggncatgntg agttgcccaa ggcccagatc 120
agctgcccag aaggsaccag tgcctaaggs tcccactgct actactttaa tgaagagcat 180
gagacctggg tttatgcaga tctctactgc cagaacatga attcaggtaa cctgggtgtct 240
gtgctcaccg aggctgaggg tgcctttgtg gcttcgctga ttaaagagag tggcaccaag 300
gatagcaatg tctggattgg cctccatgac ccccaccgga tcagtctgct gcatcttcta 360
cctcctgatt atcagggttc agagggtctg atgtctggca cctcaagcat cagtttttac 420
tatattatga taaaagcaac ctctctataa atcatataat gtaaaggata tcaaggttct 480
ccatagggtc ttcgagataa gcttaaagct gaatttcctg tgtgtttcag gcattcacag 540
ataaactcat tctctgtact tctagggtag catctttatg tatctattat gtacctctta 600
tctattgtgt tatcatctct gttatagaag agccttctgt agaccatata gaaaaagatt 660
atagaggagg agaattctact gctggcaatt ggaaccgca agtattacta aataat 716
```

<210> 67

<211> 1126

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (416)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1109)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1113)

<223> n equals a,t,g, or c

<400> 67

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ggcacgagct gcacagtact cttggtttat caatgggacg ttccagcaat ccacacaaga 60
gctctttatc cccaacatca ctgtgaataa tagcggatcc tatatgtgcc aagcccataa 120
ctcagccact ggctcaata ggaccacagt cacgatgac acagtctctg gaartgctcc 180
tgtcctctca gctgtggcca ccgtcggcat cacgattgga gtgctggcca ggggtgctct 240
gatatagcag ccctggtgta ttttcgatat ttcaggaaga ctggcagatt ggaccagacc 300
ctggaattct tctagctcct ccaatcccat tttatcccat ggaaccacta aaaacaaggt 360
ctgctctgct cctgaagccc tatatgctgg agatggacaa cttcaatgaa aatttnaaag 420
ggaaaaccct caggcctgag gtgtgtgcca ctcagagact tcacctaaact agagacaggc 480
aaactgcaaa ccatggtgag aaattgacga cttcacacta tggacagctt ttcccagat 540
gtcaaaacaa gactcctcat catgataagg ctcttaccct cttttaattt gtccttgctt 600
atgcctgcct ctttcgcttg gcaggatgat gctgtcatta gtatttcaca agaagtagct 660
tcagagggta acttaacaga gtatcagatc tatctgtca atcccaacgt ttacataaa 720
ataagagatc ctttagtgca cccagtgact gacattagca gcatctttaa cacagccgtg 780
```

```
tgttcaaagtg tacagtgggtc cttttcagag ttggacttct agactcacct gttctcactc 840
cctgtttttaa ttcaaccag ccatgcaatg ccaaataata gaattgctcc ctaccagctg 900
aacagggagg agtctgtgca gtttctgaca cttgttggtg aacatggcta aatacaatgg 960
gtatcgctga gactaaagt gtaagaaatt taacaaatgt gctggcttg gttaaaatgg 1020
ggctacacty catctgactc attctttawt cyattttaag ttgggggttg gaaaccttg 1080
cccaaagggg gcgtaagtcc caaccctng gnaattaac cccccc 1126
```

<210> 68

<211> 2139

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2067)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2123)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2138)

<223> n equals a,t,g, or c

<400> 68

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aattccagga caccacacct ctcaaaggtt tctgacttcc ttgtcccaa atattaatcc 60
ttctgtcca gattccaatg atcagcacca agaggtcccc ttttccttct gccaggcatt 120
ggcctgtctg ataggactct tggtcactta gttaaaatca cagtggccca aggaaggaac 180
ctcctgagct tgattaccct cactatggag cagaaggacc tggccctgga cacagggcgg 240
tgcacagtat aaactaacca ctgcctgacc tgagctttgg ctgaaatgac acacaggyct 300
ytgcactgcc cacctctcca acctgaggca gaacaagtag gcgatgattt gcactgcatg 360
attctcagtg tgaaagtcta tgttggcaaa ggatatttca agtggaaactt agaagctatt 420
ccttaaggct aggaacgaaca ccacgtaca cgcgaaggct atcctatttg ataaagatca 480
aaaactagca aacaaaaatc tccagctgcc cacgttgctt tggatcatgac ccttccttca 540
gatcacttct gcctttatct ttgctgttta ggggatgtgt tatcacagaa acttggaatg 600
cagagaaatg ttatcacaga aacttggaat gcagaaaaat ttttscyttt yaggggaggt 660
gttatcacag aaacttgga tacaagacc tccccccacc gcagccctgc cccacccac 720
ctacccctg ctggatttag cactgcactt ccattttagc agtgatttcc ttcctttttg 780
ccctcgctg ccttcagta acacataatt tccttctatt tccagagctg tcgatgatga 840
aatcgaggcc aatcttgaag agttcgacat cagcgaggat gacattgatg atggattcag 900
gagactgttt gccagtttg caggagagga tgcggagatc tctgcctttr agctgcagac 960
catcctgaga aggttctag caaagcgcca agatatcmag tcagatggct tcagcatcga 1020
gacatgcaaa attatggttg acatgctara ttcggacggg agtggcaagc tggggctgaa 1080
ggagttctac attctctgga cgargattca aaaataccaa gtaaratccs agaaatgcgg 1140
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gagtggagaa acatttccaa ggggattggg attttaccce taatgaagct cagagtga 1260
aaagatgggg ctgaggaat gcaaacaaa aaccaaccag gacttcgcag gtgaaatggc 1320
ctattccctt cctcctgatt attgggatca tctaaaggcc accatcaagg gtttcctgaa 1380
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aagggttttt gacagctaaa gtacaaaaat tatataagac aagaacatgg acctatgggc 1440
gttggctggc tgatttratg ggcataattta caaaccagct cacagacaga agcaaaatac 1500
tattagttat ttaaggcaga aacataagtg attcttccac ggccaaacta gaggcacaga 1560
gctggaaaaa cttcatcccc actcagcaca tactagggag gtaacttgcc agctttgctt 1620
tgggtcatag ttcttacagc kaacttatgt gttcagaaaa ttaccgaga aatcgacgtt 1680
gacaggtctg gtaccatgaa ttctatgaaa tgcggaagga ttagaagaag caggtttcaa 1740
gatgccctgt caactccacc aagtcacgtg tgctcggttt gcagatgacc agctcatcat 1800
cgattttgat aattttgttc ggtgtttggt tcggctggaa acgctattca agatatttaa 1860
gcagctggat cccgagaata ctggaagaat agagctcgac cttatctctt ggctctgttt 1920
ctcagacttt tgaagttata actaatctgc ctgaagactt ctcatgatgg gaaaatcagc 1980
caagggaactt aagcttccat aggaaataca ctttgtatct gggacctcca aaattatggg 2040
ggaaccattt aactttaaac ggggtggncca taggctggaa aattattggt tactgtccat 2100
tttgagggtt ggccggaagt ttncacacct ccaaggtna 2139

```

<210> 69

<211> 1341

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (376)

<223> n equals a,t,g, or c

<400> 69

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cggacgcagc gggactccan gaaaacccat ggccatgagg ttgacacctg tttttggtgc 60
cctttttggg catatctact gtctagaaac atttgtggga gaccaagttc ttgagattgt 120
accaagcaat gaagaacaaa ttaaaaatct gctacaattg gaggtcaag aacatctcca 180
gcttgatttt tggaaatcac ccaccacccc aggggagaca gccacgtcc gagttccctt 240
cgtcaacgtc caggcagtca aagtgttctt ggagtcccag ggaattgcct attccatcat 300
gattgaagac gtgcaggtcc tgttgacaaa agagaatgaa gaaatgcttt twaataggag 360
aagagaacgg akggtnaact tcaatttttg ggccaccat accctggaag agatttccca 420
agaaatggat aacctcgtgg ctgagcaccg tggctctagt agcaaagtga atattggctc 480
ttcttttgag aaccggccta tgaacgtgct caagttcagc accggaggag acaagccagc 540
tatctggctg gatgctggga tccatgctcg agagtgggtt acacaagcta cggcactttg 600
gacagcaaat aagattgttt ctgattatgg aaaggaccca tccatcactt ccattctgga 660
ygccctggat atcttcctcc tgccagtcac aaaccctgat ggatacgtgt tctctcaaac 720
caaaaatcgt atgtggcgga agaccgggtc caaggatatct ggaagcctct gktktggtgt 780
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ctctgattca taccacggac ccagtgccaa ctctgaagtt gaagtgaat ccatagtgga 900
cttcatcaag agtcatggaa aagtcaaggc cttcattacc ctccacagct attccagct 960
gctgatgttc ccctatgggt acaaatgtac caagttagat gactttgatg agctgagtga 1020
agtggcccaa aaggctgccc aatctctgag aagcctgcat ggcaccaagt acaaagtggg 1080
accaatctgc tctgtcatct accaagccag tggaggaagc attgactggt cctatgatta 1140
tggcatcaag tactcatttg ctttgaact gagagacaca gggcgctacg gcttcctctt 1200
gccagcccgt cagatcctgc ccacagccga ggagacctgg cttggcttga aggcaatcat 1260

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ggagcatgtg cgagaccacc cctattaggg ccctggggaa gaaacaagag ccattaaaaat 1320
ctctttggtt tgaagcaaaa a 1341

<210> 70

<211> 735

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (628)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (730)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (732)

<223> n equals a,t,g, or c

<400> 70

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ctggcccttg caggtgtccc tgcaggacag cagcggcttc cacttctgcg gtggttctct 180
catcagccag tcctgggtgg tctactgtgc ccactgcaat gtcagccctg gccgccattt 240
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ctctcggggc attacacacc ctactgtgaa ctctaccacc atgaacaatg acgtgacgct 360
gctgaagctc gcctcgccag ccaggtacac aacacgcac tcgccagttt gcctggcatc 420
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tggcgtgggc aatgtracac cagcacatct gcagcaggtg gctttgcccc tggtcactgt 540
gaatcagtcg cggcagtcact ggggctcaag ttatcaytga ctccatgatc tgtgcagtgc 600
caaaggttgc ctctcctcgt ccaaggtnga ctccgaaaag ccctctttgt tctgcccata 660
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actgcaatgn tngcg 735

<210> 71

<211> 2030

<212> DNA

<213> Homo sapiens

<400> 71

gggcagagca ccgcgtctcc cgccttctcc gcagccccgc agccccgggc cctgtcatcc 60
ccagcgctgc cctgtcttgc gttccagtgt tccagcttct gcgagatgac cctcaaggcg 120
agcgagggcg agagtggggg cagcatgcac acggcgctct ccgacctcta cctggagcat 180
ttgctgcaga agcgtagtgc gccagaggct gtatcgcatc cattgaatac tgtgaccgag 240
gacatgtaca ccaacgggtc tcctgcccc a gtagccctg cccaggtcaa gggacaggag 300
gtgcggaaaag tgcgactcat acagtttgag aagggtcacag aagagcccat gggaaatcac 360
ctgaagctga atgaaaaaca gtccgtgtacg gtggccagaa ttcttcatgg tggcatgac 420

```

catagacaag gctcccttca cgtgggggat gagatcctag aaatcaatgg cacaaatgtg 480
acaaatcatt cagtggatca gctgcagaag gcgatgaaag aaaccaaagg aatgatctca 540
ttaaaagtaa ttcccaacca gcaaagccgt cttcctgcac tacagatgtt catgagagcg 600
cagtttgact atgatcccaa aaaggacaat ctgatccctt gcaaggaggc gggactgaag 660
tttgctactg gggacattat ccagattatc aacaaggatg acagcaattg gtggcaggga 720
cgggtggaag gctcctccaa ggagtcagca ggattgatcc cttcccctga gctgcaggaa 780
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tggaccccat ccctctaaag cctgccctcc tttgccttca actgtatatg ctgggtattt 1860
catttgtcct tttatttttg agaaagcgtt tttaactgca actttctata atgccaaaaat 1920
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gctgtgttga aatgccaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2030

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<210> 72

<211> 1875

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (339)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (350)

<223> n equals a,t,g, or c

<400> 72

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agatgggccc tgtttgctga aatgttgggg ccaaacaact tgatagagcc tatgatgttc 120

```

```
ctttcaagct ttctaaagtt tccaccaacc tcagatgaaa atgtaactgt gagaagtaaa 180
tttaacaaca ttgttgctctg catatgtgtg ccaaaatgga agacagaatc atgaaaaaga 240
agcttattttt ataaccatgg tgggtggtca tgtttgagta gtaatgctcc ttggtctggc 300
cactgaagaa tgacagagcc cagggcccccgtgccatcnt gccatcactn gctttggagc 360
cccagggtaa ctccctgccag taacagagas caagcgggac gttcaccatg ggaagaaaat 420
cgctgtacct tctgattgtg gggatcctca tagcatatta tatttatacg cctctcccag 480
ataacggtga ggagccrtgg agaattgatgt ggataaacgc acatctgaaa actatacaaa 540
at ttggttgt cgaggagcttt gatgaagtcc caccaacctc agatgaaaat gtcactgtga 600
ctgagacaaa attcaacaac attcttgttc gggkatatgt gccaaagaga aagtctgaag 660
cactaagaag ggggttgttt tacatccatg gtggaggctg gtgctgtgga agtctgtctc 720
taagtgggta tgacttgctg tcaagatgga cagcagacag acttgatgct gtcgtcgtat 780
caaccaacta cagattagca cctaagtatc atttcccaat tcaatttgaa gatgtatata 840
atgccttaag gtggttctta cgtaaaaaag ttcttgcaaa atatggtgtg aaccctgaga 900
gaatcggtat ttctggagat agtgcaggag ggaatttagc tgcagcagtg actcaacagc 960
tccttgatga ccagatgtc aagatcaaac tcaagatcca gtctttaatt tatcctgccc 1020
ttcagcctct tgatgtagat ttaccgtcat atcaagaaaa ttcaaatttt ctatttctat 1080
ccaaatcact catggtcaga ttctggagtg aatattttac cactgataga tcacttgaaa 1140
aagccatgct ttccagacaa catgtacctg tggaaatcaag tcatctcttc aaatttatta 1200
attggagtgc cctgctccct gagagggtta taaaaggaca tgtttataac aatccaaatt 1260
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tggtggctga tgacaacaaa ttacgtggct taccctgac ctatgtcatc acctgtcaat 1380
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aaattagtca cagacttata aatcagtata ttgagtggtt aaaggaaaat ctatagtaaa 1560
acatgtagct ataacatatt ttaaaaataa aatctgaaaa cctcagaaaa tttgcattag 1620
aaattggctt ttcttaaaat ggtctagtta agttccacat gtagcataat tcttaaatag 1680
gcacttttct gttttttttt tcttactgtg ggatttcatt tcaattttct acattgtcta 1740
tctgcttttt ctgagatttt ccttcttaca ctgttaatct tattttaaaa aatattacat 1800
tcttgatatac tttatttttg tgagttggct actattttacg atgcaagaga ataaatgtga 1860
gcaaatattg ccgaa 1875
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<210> 73

<211> 860

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (40)

<223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (802)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (812)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (843)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (857)
 <223> n equals a,t,g, or c

<400> 73
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 tctgcaacat ggggaagaac aaactccttc atccaagtct gggtcttctc ctcttggtcc 180
 tcctgcccac agacgcctca gtctctggaa aaccgcagta tatggttctg gtccccctccc 240
 tgctccacac tgagaccact gagaagggct gtgtccttct gagctacctg aatgagacag 300
 tgactgtaag tgcttccttg gagtctgtca ggggaaacag gagcctcttc actgacctgg 360
 aggcggagaa tgacgtactc cactgtgtcg ccttcgctgt cccaaagtct tcatccaatg 420
 aggaggtaat gttcctcact gtccaagtga aaggaccaac ccaagaattt aagaagcgga 480
 ccacagtgat ggtaagaac gaggacagtc tgggtcttct ccagacagac aaatcaatct 540
 acaaaccagg gcagacagtg aaatttcgtg ttgtctccat ggatgaaaac tttcaccctc 600
 tgaatgagtt gattccacta gtatacatc aggatcccaa aggaaatcgc atcgcacaa 660
 ggtagagttt ccagtttagag ggtggcctca agcaattttc tttccctc tcatcagagc 720
 ccttcagggt ctccttaca ggtggtggtg cagaagaaat cagggtggga gggacagagc 780
 acccttttca ccgtgggagg anttggtgct tncccaagtt tggaagttac aagttaacag 840
 tgnccaaagg taatcancat 860

<210> 74
 <211> 520
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (34)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (485)
 <223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (498)

<223> n equals a,t,g, or c

<400> 74

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gggcatcact ggtctcgcgt gcgcgtgacc aggncccggg ttccggtgcc aggacctttc 60
cgaagcgctcg agtggcctaa cggtcacagc tgtcgcccat cggagaggca ggactactgc 120
gagcagtttt accgcgacct ccggagccgg cgtgacaggc tctgtcayta aaataggtct 180
gtccagtcgt actttttcct caccttgaac tttccgtcac gggaaatacac gatttggctt 240
argggccggg gctctcctga ggagaraggg tttgctttgc ggggaagagc gagtcttgac 300
ttcgacgcct ccaatttcag ccgcggtgtg gaggggggtg ctttgggtgg tccccacagc 360
ctttccggag tgcccgcgcg tgtgagcttt tgagatttga caatttgtga agtgcttggg 420
gctgactttc ggggacgaca ggatcctttt acagtcattc tcctgtcagg gaagcaagtg 480
gggancgagg aagatcanaa tcgtaacaga cttgagttaa 520
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<210> 75

<211> 863

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (772)

<223> n equals a,t,g, or c

<400> 75

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gnccgnaagc agcagcgag gttgtacccc gtttcccctc ccccttcctt tctccggttg 60
ccttcccggg ccccttacac tccacagtcc cggccccgcc atgtcccaga aacaagaaga 120
agagaaccct gcggaggaga ccggcgagga gaagcaggac acgcagagaa agaaggtatt 180
ctgcctgaga gagctgaaga ggcaaagcta aaggccaaat acccaagcct aggacaaaag 240
cctggaggct ccgacttcct catgaagaga ctccagaaaag ggcaaaaagta ctttgactca 300
ggagactaca acatggccaa agccaagatg aagaataagc agctgccaaag tgcaggacca 360
gacaagaacc tggtgactgg tgatcacatc cccaccccac aggatctgcc ccagagaaaag 420
tctcgcctcg tcaccagcaa gcttgccggg taacctgagc cccctctctc tccccttctt 480
caaccactgg acgtttatat attataggca gggatgaaat gggcacctag tcagatcttc 540
tcagcttgct agccagaaat gactgtgatt ctgctggggg ctgctgagaa ggtaatgtag 600
gttgaaaagg ggctctaagt ttatttattt cgttagattg acacttccac acactccctg 660
tagtccaggt agggcccaga aataggaaag gctaggattg gataatgctg caaatgcttt 720
ttttgtgtga gaaactggga gagatgtgat ttctcctttg gggagagaat tntcccaaat 780
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ttgatttagg gtgagccttg ggaatagttt tggcagggtt taacatccca agggttaacc 840
taacgtagtt tgggaaaagg tag 863

<210> 76

<211> 691

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (674)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (681)

<223> n equals a,t,g, or c

<400> 76

aagaaaagaa gatgtagcct cttttccaga ataagagtac tgactaagct gcctgaaagc 60
ttgtcactga ttctttgctt caggagtctc agctagggag ttgaagtgtt tacatcagac 120
tgtcttgctg aattcttata tttattttac tggttcactt ttttttacct ttatttttagt 180
cttttatatt ttatttttaa gcattgatgt acttagttgt tgaaaggggtg atgaaactga 240
tatccagata cttgagatcc tggtaattgg tcataaataa ttggcaaaaat aacaaattgt 300
gaaaatagaa gccattgctc agcaccgttt ctccatcaat gccgtgaact tgccttactt 360
gaggaaaaat tctttaactt tggaatattg cattgaactc agctatacac ataaaaacatt 420
ttctttggta aatcaagatc cagtcagggt ttctcttgaa ttattttgga acaatgccag 480
gatccaaact gattaagtta cagtttaagc acccttcagt attaataat acggtattat 540
ataacaggtc aacaagtgt ctttgatgat aaaacttgta atagagcaat aattgtaaat 600
ggttaccata ctgtaagata ttttgataaa aattaactag taatacttgt atttatttga 660
aacactgggg gggngggagt nggggggggg g 691

<210> 77

<211> 325

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (310)

<223> n equals a,t,g, or c

<400> 77

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cccgacgctg ctctacaccc tgttccgcgg gaagggtgcc ggtcgggcgc accgggactg 120
gtaccacgc atcgaccca ccgtgctgct gggcgcgctg ccgttgccga kttgacgcgc 180
cactggtaga ggacgagaac gtgcgcgggg tgatcaccat gaacgargar tacgagacga 240
rgttcctgtg caaytyttca caggtgcaca aatggaatcc agaagaagct gtaagacat 300
cgccaagatn cggtcataca tccaa 325

<210> 78

<211> 821
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (45)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (54)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (690)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (771)
 <223> n equals a,t,g, or c

<400> 78
 acttagttct agatcgcgat ctagaactac ccacgcgtcc gcggnacgct gggncctctgt 60
 gaattcttgaa tggtaaaaaac caacactgct tttaatcctc ttttaatggt ttaatacrag 120
 ctttctgttc tgaaacaagg ctgcataagt agaattgggaa tccttctaaa ggtgggtgtg 180
 aactcaccac aagctgagct ttatagagcc cttgagaaac cctcctgagc actaagcagt 240
 tgggggtgctg attttcttgt acttttgaaa aattaagtca ctcccagttt cctgcataag 300
 ttcttgaaca gaatgaaatc acatctccat tcaaaaaatg tctcaagcat ctactgttgt 360
 gtaaggaact tctgattctg attgctgtta cttgaatagg aaatgggttac tcattctgta 420
 taaaagtttt gcaagagaat gaatttttta ttctgtaatc aaaaagcaat aacttgaaat 480
 tcaactctgta atattatagg kcagaattat acaagtttta ccaaattggt acacttattc 540
 tccaagctgc cagaacctgg tatctgtatc tgtaaaacca aattaacttt tgcttaaatg 600
 ggaagtatac atatatctgt atagatacat tacccttcta catgtttaac atacacacac 660
 ttaaacacat aaatactagt gtgattatan tttggagttt gcaatatagc ataaaggaca 720
 agtagaactg cacattaaga ttcctaccga agccactaga tgtggctggg nacaatcaag 780
 gaggaatttg tccacaggaa ggtgaggaa tccaatgagc c 821

<210> 79
 <211> 617
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (538)
 <223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (595)

<223> n equals a,t,g, or c

<400> 79

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tagagcatga gctcaggcaa gaggccccgc tacaaccgct tctccggggg gccagcaat 60
cttcccaccc cagacgtcac cacagggacc agaattgaaa cgaccttcgg acccgcttt 120
tcagccgtca ccaccatcac aaaagctgac gggaccagca cctacaagca gactgcagg 180
acaccctcct cctcsagcac ccttgcttac tccccgcggg acgaggagga cagcatgccc 240
cccacagca ctccccgccg ctccgactcc gccatctctg tccgctccct gactcagag 300
tccagcatgt ctctgcgctc cacattctca ctgcccagg aggaggagga gccggagcca 360
ctggtgtttg cggasagccc tcggtgaagc tgtgctgtca gctctgctgc agcgtcttca 420
aagaccccgat gatcaccacg tstsggcaca cgttctgtag gagatgcgcc ttgaagtcag 480
agaagtgttc cgtggacaac gtcaaactga ccgtggtggt gaacaacatc gcggtggncg 540
agcagatcgg ggagctcttc atccactgcc ggcagtgccg ggtaacgggc aagcnggaaa 600
gccccatctt ttgaagt                                     617
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<210> 80

<211> 1189

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1107)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1156)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1167)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1188)

<223> n equals a,t,g, or c

<400> 80

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gtatcaaagg gaaagagtat ttctccttaa ataaaattac aaataagaaa tgtatgtttt 120
actcttactc ataaaaggta ttgtagaata caaaaggttt ttcaaactgg ttttgctttt 180
gattggcttt tataatccac acttcaaaga agaaatgcat ttaactttta ataacttagt 240
caaaaagtat aatgttgccct tgccctgcat aacctttaac tattgcaaat gatgttttgt 300
ccttcccctt tgtccagtat tttccaaatg gtcaacagtt taaacattta agcttgactc 360
gagaaacctt gccacatttc agcagttttg ttttgctttt ggtggagagc acctgatctc 420
gactttacag ccaatgtatt tactctaaat tacactttta tagatacaag gtaaagtgtg 480
```

```
gctgggtgaa ggcactcagg agccataaaa tgtggtcaac cacaataaat taaaatgtaa 540
gctaaacaaa gtattcacac ttgcattttt ttaataagga atttaagatc catagtatct 600
ttaatgcttg gaagagacac aaattcaagg tgataaaaat attaattaga agacacataa 660
catgcctcaa gtatatcaac acttgactcc acaacaagg cataaccatg aaaacaacac 720
tccctttatt ttgggctccc aaaatcaaaa gttagaacta atttatttaa tcacagatat 780
ttagtatact caataatgca ctaacaattt ctttaaaaaa acactaatac tgtacagtat 840
ttctgtgttt tagtttttcc cacagctgtt gaaaatttca gccttgattt gaaacatgac 900
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gcagttaagt ttttcgacaa tgccaaggat caaaaacaga tggaaaacaa catttgctg 1080
aagatgaaaa ggtattggca ttggtcntaa tagatgttgc catctctggg gtgaggatgc 1140
tgactgagcc tggtcngtgt cttcatncac ccccatattgt tttcttcnt 1189
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<210> 81

<211> 466

<212> DNA

<213> Homo sapiens

<400> 81

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gccgggccgc gtcctctctc ctccggccgc cggccaccgc cgaagtctta ggggcggggg 120
gtcgcgcccg cgcaggagtc accccaactt tcacggctcc aaaaaatact tcccgagttg 180
ggggaggggg ccaccgagcc acgagcagga gtggcttttg tccctcatcc ttgtttactc 240
ggagaaactt cagaccggac gtgttttagt agaacagaaa tacatctcag ggccaaaccg 300
ataggaaacg aggtgcctc gcgtggcac cgcaccyccc aaccgggttc cgagcaccgc 360
agctggctgc tgctccctct ttggagcaaa gttttatgca aagagggtgt tttttgaaac 420
tttcggtgca cggtgatatt tttttttaag gtcccataat taggaa 466
```

<210> 82

<211> 360

<212> DNA

<213> Homo sapiens

<400> 82

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atctgggaat caagtaggtt tttggtctgt gcttttataa gtatttcttc tatgtgaaat 60
cactctaagt ttgaatagta gaatttctta tcttttgacc aagatgtgtt acataaactt 120
gggttagcat aaaaaaacia aaatttttta aaccctcatg tgtcttaaag ataatagtag 180
actagaaata ttaagagctg aaccaagagt tttaatgtat ggtaatttga aataatttta 240
atttactgga taattttatt ttaccagtat attacaagt gagttgrctg gaagggtagt 300
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<210> 83

<211> 2109

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2066)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2083)

<223> n equals a,t,g, or c

<400> 83

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taagctggc 2109
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<210> 84

<211> 1535

<212> DNA

<213> Homo sapiens

<400> 84

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atggtcatag gcgacgattg acttggaag cgactcctcg atctattcat gaaggaattg 180
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cagaaaatgg caatttaggc atcaatgtaa ctatttccat gtgttgaaat ggcaatcaaa 300
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ccaacctaaa actctttcgg taggtggaag ctagacacat gaaggtaaat aaaagaaaag 420
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gttttgacaga agaaggcatc gtcatgcaca gtatttgtaa ttaaaagcaa atcatttggt 1260
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attggtcttt ycccatgcc ctgccccttc ttgcc 1535

```

<210> 85

<211> 431

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (325)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (334)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (347)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (381)

<223> n equals a,t,g, or c

<400> 85


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ctgmcccggc cttggatatg ccagatcgag tgtccacccg tccgtgggac tggtcgcctg 180
actcggcctg cccagsgcts tgcttcaccc cactggtggc caaatagccg atgtctaate 240
ccccacacaa gctcatcccc ggctctggc gattgttggg aattctctcc ctaattcacg 300
cctgaagggtc atggagagtt gctanaactg ggantgccct gggaagngca aaaaaccaag 360
ccgggttgca gcaagacttt nccagtcctg tttttttggg cgtgattcgg ccggaacatg 420
caggtgatag t 431
```

<210> 86

<211> 1142

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (478)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (565)

<223> n equals a,t,g, or c

<400> 86

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ggctgcattg atgtcgggct ctcagtgatg tctgtaaaga agtcatcaaa atgsatagac 180
cttgacaccg aggagcacat ctaccatctg aaggtaagt cagaagaagt ctttgatgag 240
tgggtatcga aacttcgcca ccacagaatg tatcgtcaga atgaaattgc catgtttcca 300
catgaagtta accacttttt ctcagggtcc accatcacag actcttcac tgggggtgtt 360
gactccattt caagtaggaa gcgtacagtt atatcaaagc agaattttatt tcaaactggg 420
aagcaatgta tcattttctt gtgggtgtga gacacgagtt ccattatggt tacagtcntt 480
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taatttgtca acactagatt ttggagaaga gaaaaattat tctgatggct ctgaaacctc 720
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aa 1142
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<210> 87

<211> 1797

<212> DNA

<213> Homo sapiens

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<221> misc feature
<222> (645)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1793)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1794)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1796)
<223> n equals a,t,g, or c

<400> 87
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gccgagctgg catgatcttc tacaggaaag gagtgaagag tgtggatccc aagactggca 300
aagagattct gtacaacctg gagtctctta tcaattctgc tgtgttcctt ggcctgcagg 360
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tggaatttaa agtttatcaa caccagggtg tggccaactg cagggtctct tctgaggccc 480
tgacggagct gggctacaaa atagtcacag gtggttctga caaccatttg atcctgtgtg 540
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tttttaacca cagaatgtct acaagaatta tagctttaaa aaatacaacc aatttttata 1740
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<210> 88
<211> 381
<212> DNA
<213> Homo sapiens

<400> 88
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ggttcacccct tccatcgtat tctcccaact acacattgta aagcctgaga aacttctaga 180
acctcaggaa gctgcagctg gagggctggg gcacctgccc ccctgctccc cacacatcat 240
atcctcccca tactcctgca gggcccacgg ctccctgagca acagctggga camccggcct 300
tggcggstgc amcccctgct aggcctctgcc maccggccac caacactcct gtaattccaa 360
taaagcagtt tattttctga g 381

<210> 89
<211> 538
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (24)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (53)
<223> n equals a,t,g, or c

<400> 89
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taaaagaaga ggaaatggca tggaatcact gcctcctgtg atttgaaggc cattgtgaag 420
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atztatcttt ctgggtattt ttatagccct taataaaaaa tattaataw gwaaaaaa 538

<210> 90
<211> 2121
<212> DNA
<213> Homo sapiens

<400> 90
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ggcaaccacg atggggctgt ccagcaatat atccgaacca ttggaaagt ggagccatcc 180
tacgtgatcc gcaagtttct ggatgcccg cgcattcaca acctgactgc ctacctgcag 240

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gccctgtatc tggcggagaa ccatgcacat catgagtggg acctgaagat ccagctagaa 480
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<210> 91

<211> 2974

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2833)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2862)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2938)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2942)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2949)

<223> n equals a,t,g, or c

<400> 91

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aaggagcgag agcgtgccct gttgaaggac cagcagccgg ggaccttctt gctgcgggtc 2100
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ggcgaacctg acttccatgc ggttgaacct tacacgaaga aagaactttc tgctgttact 2220
ttccctgaca tcattcgcaa ttacaaagtc atggctgctg agaattattc tgagaatccc 2280
```

```

ctgaagtatc tgtatccaaa tattgacaaa gaccatgcct ttggaaagta ttactccagg 2340
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gacagtatga tgaacacagt atagagcatg aatttttttc atcttctctg gcgacagttt 2580
tccttctcat ctgtgattcc ctcctgctac tctgttcctt cacatcctgt gtttctaggg 2640
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<210> 92

<211> 412

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (136)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (229)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (349)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (371)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (383)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (404)

<223> n equals a,t,g, or c

<400> 92

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ggcacgagcc tccgcgagtc ccagcgctcc ctctggggag tgcggttgag gggctgtcct 60
cgcacggagc ctcgctcggc ctcgggggag ccacgagagg tgggagttgg acccgcagcg 120

```

```

ggccaggagc cctgtncatt ggaggaccgc ccaaaaagga agcaaaccct ctttttcttt 180
atccaacccc aaatagctag ggccctagggg gaagactcac atatcgatna aatgggttgt 240
tgcccgtttt attctctggg aaatacaact grtcttacca aaggaaatta acctgtcttt 300
ttggccgtgt ttaatttagg aggccatagg attacctgtt ttcagaggnt ggaaggggac 360
ctggaggccc ntggttaatc cnttaacct cgtggaggaa agcnggaaaa aa 412

```

<210> 93

<211> 1883

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (252)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1591)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1819)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1883)

<223> n equals a,t,g, or c

<400> 93

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ccgtgccttc accccagagc agctgcagcc tcagccggcc gcccctccgc cagccaagtc 60
cgccgctctg acccccgcca gcaagtcgcc accatggtga agatcgtgac agttaagacc 120
caggcgtagc aggaccagaa gccgggcacg agcgggctgc ggaacggggg gaaggtgttc 180
cagagcagcg ccaactacgc ggagaacttc atccagagta tcatctccac cgtggagccg 240
gcgcagscak gnaggccacg ctggtggtgg gcggggacgg ccggttctac atgaaggagg 300
ccatccagct catcgctcgc atcgctgccg ccaacgggat cggtcgcttg gttatcggac 360
agaatggaat cctctccacc cctgctgtat cctgcatcat tagaaaaatc aaagccattg 420
gtgggatcat tctgacagcc agtcacaacc cagggggccc caatggagat tttggaatca 480
aattcaatat ttctaattga ggtcctgctc cagaagcaat aactgataaa attttccaaa 540
tcagcaagac aattgaagaa tatgcagttt gccctgacct gaaagtagac cttggtgttc 600
tgggaaagca gcagtttgac ttggaaaata agttcaaacc cttcacagtg gaaattgttg 660
attcggtaga agcttatgct acaatgctga gaagcatctt tgatttcagt gcaactgaaag 720
aactactttc tgggccaac cgaactgaaga tccgtattga tgctatgcat ggagttgttg 780
gaccgtatgt aaagaagatc ctctgtgaag aactcgggtg ccctgcgaac tcggcagtta 840

```

```

actgcgttcc tctggaggac tttggaggcc accaccctga ccccaacctc acctatgcag 900
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atggggatcg aaacatgatt ctgggcaagc atgggttctt tgtgaaccct tcagactctg 1020
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gctgcaggag aggacgggac gcaactgcac ccactgtcat cacctaagaa gacaggcctg 1800
atgtggtacg tccctccanc cccggaccca tccaagtcac ctgattgaag agcatgacag 1860
aaacaaaatg tattcaccaa agn 1883

```

<210> 94

<211> 2311

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (689)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1657)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2311)

<223> n equals a,t,g, or c

<400> 94

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ccgcagnact gcacaactct gccaggggtg aggttcttgg cctcagctcc tccctgggga 60
aggaactagt ctttctccaa gaagaactcg acttgtctga aatccacatt ccagaggctc 120
aggaagtggg aatggcctca ggtcattttg cttcccyaca tgtgcctggt ccagatggca 180
gggctcctta ctgaaggca tctctcagcg cctccagcag cctggaaccc acgcctcctg 240
aggacacagc catcagcagc ttgcgcccct cctctgctcc tgagatgctg acccagcatg 300
gagcccaaga gcagctcgaa gaccatcctg gccatagcag ccaagccccc attccagag 360

```



```

cagaccctct cccagaagg acccgagcc cttgttattg cctcgcttag atccaggaca 420
gagaggaaac aagcttccca cgggggaaca aggcctggat gaggatgttg atggggtctg 480
tgaaagccac gcagccctcg gtctggaatg cagttcaggc tcagcaaaact gtcagggtgc 540
tgccccctct gcagatggaa tcagctccag gctgacacca gcagagtcct gcatggggct 600
cgtgaggatg aatctctaca ctactgcgt caaagggtcg atgctgtccc tgctggctga 660
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gaatttgccc agctgcccgc gctttatgaa atgactgtca gaaatgcctc cacggctgtg 960
tacgcctgtt gcaaccccat ccaggagaca tatttccagc agctggcacc tgacgacagg 1020
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cgtgcagctg gttcctctcg agcgagtgtc cctaaatagg agtttacaag atgtctgggg 1920
gtaaaagcac tgtgtttttc agtgggtggc gcgtgaaaag gagcgacact cagctgtgtg 1980
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ctgatatctg atgtttatga tatgggtgtc ttttcttgaa acaagcttcc aagggtctga 2220
aataaaatag ccaaaaaatg ctggagtctc gagtaaaaaa ggcagcattt ttttgtgaca 2280
aaggtaaggg ttaagacagt gtgtgtgtgt n 2311

```

<210> 95

<211> 514

<212> DNA

<213> Homo sapiens

<400> 95

```

ggcacgagct gtgggtacc tctactacacc cactgctgcc ctggcctctg ctccacctc 60
agtgtgtgcc cagtcaggag ccttgggtccg catgcagggt gtcccataca cggctggtat 120
gaaggatctg ctacgcgtct tccaggccta ccagctaccc gctgatgact acaccagtct 180
gatgcctgtt ggtgaccac ctcgcactgt gttacaagcc cccaaggaat ggggtgtgtt 240
gtaggagaga aagccaggag gtaagagcca gctgatatcc tcggcgaaca tgtctctcct 300
gagtccagaa gaccagcacc ctcaacctgg tagcttcttt ctggcttgct aaagctcttc 360
agaaggtagc tagaggrgcc caagccccag ctccatcctc cacttattyt gcctgtttcc 420
cccaaagaca atggctggac cctgcatgca ggctgggggt ggaatgggyt aacaytccga 480
tggtgrrca ggmttcttga ctggcacctg gaaa 514

```

<210> 96

<211> 465
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (375)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (406)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (417)
<223> n equals a,t,g, or c

<400> 96
gggcacgagc tagaaaccac tgctgacgtg gaagagatca ctggagaagg actcactgct 60
tctggtagtgt gtgatgtcat gaggagacgt attgctaccc cagaagaagt tcgtcttccc 120
ctccaacatg ggtggcggag agaggtgctgc atcaagaagg gcagccaccg atggcagggg 180
gagacctggt attatggccc ctgtggkaag aggatgaagc aatttcacaga agtgatcaag 240
tacctgagcc gcaacgtggt acacagtgtc cgccgagagc acttcagctt cagtccccgt 300
atgctgtgtg gagatttctt tgaaagaaaag agacacgccca gaggtgcaga cccaaagggt 360
aaatatgctt ttgtncctga agaagagttg gtggacaaaac tgcagnttcc tctcgtnggg 420
gttttaaagtt cttgggcatt taatggtccg aaggcctcgt ggcct 465

<210> 97
<211> 1459
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (649)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1104)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1418)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (1434)

<223> n equals a,t,g, or c

<400> 97

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gggagtcctat gaacatcttc gagaccatcg tcaacaacaa gctcttcttc aacgtctcca 60
tcattctctt cctcaacaag atggacctcc tggaggagaa ggtgaagacc gtgagcatca 120
agaagcactt cccggacttc aggggagacc cgcacaggct ggaggacgtc cagcgctacc 180
tgggtccagt cttcgacagg aagagacgga accgcagcaa gccactcttc caccacttca 240
ccaccgccat cgacaccgag aacgtccgct tcgtgttcca tgctgtgaaa gacaccatcc 300
tgcaggagaa cctgmrggac atcatgtgtc agtgagcgag gaagccccgg ggtttgtcgt 360
cgttgagcag cccccacggc tgcgtgtcag actcttgggt gtgtgtgtgc tgtgtgttcc 420
ttgagtggtt ttctcggatc cgtgcccctg aatacctggc tcaggaatgc tgtcagacca 480
gccagccagc gagctctagg caaaaggaca tggaaactgt cacgttagct actgaatcct 540
gggggagagt gaaatactga aaatccgagt gatgatgttg tgaatacggg acacctaata 600
acacagcttg ctttgctttt acagaaacgt tcctcttttt ctgacgcant ttgaggaccg 660
tggttggtgt gtatgtgtgt acacacgctc tgtctttaat gacagaaaca caaaaaccag 720
ctggccttgc agacggcttt tctaactcac aagtcttccc tgagacagac taacctgaaa 780
gctttgccta acagtagctt gtagagatcc agtgcacgcc gatgctgcta aactcagtgc 840
ctgagcccg g cctgcagcc ccagccgag tgcctgaagg ccacctcca aaggagcagc 900
ttgccttttc aaactcccg g cccgatttcc taagagcccc tagtccaagc ctctcagatg 960
aagctgagga gccgtgccta ggatcccttc ccagctctga ggacgggctg cagagctctg 1020
caggtgtgga ttcaccttac gcccctacag caggctcagc ccttcccacc ctgccccatg 1080
cccagcagca caacacggag tagnacagga tgcccacggg gactgccgct ccgtccgtgc 1140
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aagctggcaa ggccacttag cagagctttt gttaaatggc ccagctgct tgggcgagct 1380
aaacagtgga ctttttcggg gaaccacag acgctggnag gaatcttgga tttnttccaa 1440
attgccgggt ccaacatgg                                     1459

```

<210> 98

<211> 879

<212> DNA

<213> Homo sapiens

<400> 98

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ggcacagctt tgtggacatt acccagaagc cacagcctcc aaggggcca cccaaaatgg 60
actggaaatg gccattcgac ttctttccct tcaaagtggc attcagcaga ggagtattct 120
ctcaaaaatg ctacgtctct cccatcctta tcctgtgcct cttactactt ggagtcttca 180
acctagagac tatgtgsaag aaaagaaaat aatcagattt cagttttccc tatgagaaac 240
tctgaggcag ccacttatct tggctaaata gaacctcacc tgctcatgac cagagagcat 300
ttaggataat agaggaccta actgaaggaa tccttggtata tgaaaggagt tattttagaa 360
aagcaataaa aatattttat tcatcatagc tctctgcttt gggctctgca ggccaccaga 420
tacacatgag gccctactt ctcaagctgg gaaggccaag agccttcctt cagcctttct 480
ggttatgtta cacctagctg aatgtttaca aggtctggat ccactagccc tcaggcacag 540
ttgggccaag cagaaagaga gaaacacttc tgctgtcacc ttgaatgaac tcaggaatag 600
cttccctctg gactgtagag gagctaactg tttggaacag aaaactgctg gctgttgatt 660
ttgtctggtt cttttgcaa catctgggca caccctttgc ccagacacga gtggggaaag 720
cagttctttc tcctcagttt ccaaagtaaa tggggaatcc cagctttctt ttctactagc 780
aaatgaccct accatttatt tctgcctttt tcttcgcttc attgtgagga aaaataaac 840
tggttgagag ctttggtgta aaaaaacctg tgccgaatt                                     879

```

<210> 99
<211> 248
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<400> 99
tttnttcnc ttcccttttt ttttttttta agtccttcag gaggtattcc agargaaggc 60
attggtgtca tgggagataa cagctccatg catgttattg cccctgaaga ccttcagta 120
aaacgagatg tggaggtaga agacagtgat atttgaccct gatcctatgt aggtctaggc 180
taatgtgtgt gattgtgtct tagtttttaa caaaaaagtt taaaaagtaa aaaaaaaaaa 240
aagaattc 248

<210> 100
<211> 480
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (414)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (473)
<223> n equals a,t,g, or c

<400> 100
accacgcgt ccggccgggg ctgctgtggg agagtccggt tgctgcggcg gggcctgcac 60
gttgactgtg ggaaactcgg aaacaagctc acatcttcct gtgggaaacc ttctagcaac 120
aggatgagtc tgcagtggac tgcagttgcc accttcctct atgcggagggt ctttgttgtg 180
ttgcttctct gcattccctt catttctcct aaaagatggc agaagatttt caagtcccgg 240
ctgggtggagt tgtagtggtc ctatggcaac accttctttg tggttctcat tgatcatcctt 300
gtgctgttgg tcatcgatgc cgtgcgcgaa attcggaagt atgatgatgt gacggaaaag 360
gtgaacctcc agaacaatcc cggggccatg gagcacttcc acatgaagct ttnccgtgc 420
ccagaggaat ctctaacatt ggctggsttt tcctgstggt gtcctccggt tanaagcccg 480

<210> 101
<211> 453
<212> DNA

<213> Homo sapiens

<400> 101

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gatagtggag aagccgcaga cgaatggagg agctgaggat gctggaagaa gagaaccagg 60
gtggaggaag tgacatgccc tggagacttg tgggaagtgg gttggaggga ggccaggccg 120
gcagcgggag gccctgggag aaatggagag aggtcagcgg agggctggcc tcagccgcgg 180
ctccttggtg ggtgcctggc ttggcaactg cttagcagg gaggggggag ggcaggggat 240
tacctaatta gagtgggtta gcttagattg gtagctgctg aaactctcgt tgagtcagga 300
rcgggtaaaa ggtaggtggg gtggggagtg kggccccggg gtggggcctg ggcctctgcg 360
tgcaaacccc agcctccctc ttcttcctca ggctttggag cccctgagtt tgagttcaat 420
aaaaacttta tgtggtaaaa aaaaaactct gcc 453
```

<210> 102

<211> 903

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (846)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (875)

<223> n equals a,t,g, or c

<400> 102

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tttataatga acaaattcaa gaaaaaggac tacggaaagt tcaggacatc aaagaagtca 60
ggcaaaactc aycttgaccc ctgttgagg caaaggaacg cagctggaag aaaagatgat 120
ataacagtta acaggatgca gacatggcag aggtttccta aaaatctcat tatctataac 180
cattttctata ttacatttg aaaaatctcct ttggagactt agaacctcta aattattgac 240
ttatttttta tataagggtca ctccgatgaa aggtgattac aaaatcatct acattgctgt 300
ctacaaaaca gataatatgg atgtttgatc gcatctcatt gttaactctt tactgatatg 360
tttgtaaata cagaagtgaa atgtggacat aaaatagtta cgctattttg ttaatggtac 420
tagacaacat gtaattaatg acattcaaaa atttatggct agtgatata ataaagtaaa 480
atthttcttg cagtaaaata tgccttttat tatagaaggg aggatataag gaaccaacag 540
tttgatatgaa aatagctcaa ataatatctt ttattttgat tttaatattt cttatttttg 600
tttattagtg tcttagaaca aaatggcctt atataatgaa gcctagttaa gctgggactg 660
ttttgatctc ttttaattgt tctggacaga tagttgggga tgagagccga ataaggtttg 720
cctggaaata actggacact atattaattt ctgctttggg caaataactaa gttctaactt 780
gtcattcctg gtaggaacca agctttatth ttcgagccta gccaatgatc taggagccag 840
atgttnactc cagtggcctt ttggcaattt tgttngtggt ggggtttttt ttttttttaa 900
aag 903
```

<210> 103

<211> 1788

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature
<222> (63)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (246)
<223> n equals a,t,g, or c

<400> 103
cagtactcgt gcccatatac aatctcttag tggctaggag agataaataa aaggggccata 60
atngtttggt ctctttcaga cataatttag taggggacaa gaagtctgtt cttcagtgag 120
tacactagag atttactctg gtgactgcct tttgagttat gggtagtaaa ggtatggctt 180
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<210> 104
<211> 3319
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2555)
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3313)

<223> n equals a,t,g, or c

<400> 104

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actacgacat ccctttattg tcaaccaccc caaggttggc agagtcagca tatatgattc 180
caaaaggcaa tccgggaaga ctaaggagac aagcgtcaac tgggtgtctgg ctgatggcta 240
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caggatctac tgagactctc ctatggtgag gccaaagaaag ctgcccgtga ctacgagacg 420
gccaaagact acttcaaaaa aggcctgaag gatattgggt atgggaactg gattagcaaa 480
ccccaggagg aaaagaactt ttatctctgc ccagtatagt atgctccagt gacagatgga 540
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caggggattt tttttctctc ttttttttcc tttttaagcc ataattgggt atactgaaaa 660
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```

```
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tatgattctg cttttatgtg tcccttgata acagtgactt aacaatatac attcctcata 3240
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aaaaaaaaaa aangggggg 3319
```

<210> 105

<211> 1986

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1227)

<223> n equals a,t,g, or c

<400> 105

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gtcttgggag ttataatagc agccacttgc atgggcctta cttctataac aggcaatcca 120
ctgtatgaca gcctagggttc tttgggtgtg ggcaccttat taggcatggt ctacagcattc 180
ctcatctaca ctaacacaga agcactctta gggcgggtcca tccagccaga acaagtacaa 240
cggtcactcg aactcctgga gaatgaccca tcagtaaggg caattcatga tgttaaagcc 300
acagatctgg gattaggtaa agtaagattt aaggcagaag tagatttttra tgggcgagtt 360
gttacaagat catattttgga aaaacaagat ttgaccaaa tgttacaaga aattcaagaa 420
tgaaaaactc ctgaagaact agagaccttt atgcttaaac atggagaaaa tattattgat 480
actttaggag ctgaagtaga tagacttgag aaggaactga aaaaacgaaa tcctgaagtt 540
cgacatgtag atttggagat actgtgagtt tgatggaatg aatcacctgg gtggggacct 600
tgaaaacaaag tttgtccgtc cactctacaa agtttcctcc tctcctacac tgaaagactc 660
agtgccatgc agaagccttt tttttaagat gaaggaaata ttttatgtaa agagcaactc 720
agcaggacac agaactaaaa ctactactta catctaacag acacactaca agttgaatca 780
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gggatatttc ttgctttaag agagagacag aatctctcac tgaaactcat ggtcatgatt 1560
ttgtataata tagtccatc tggtctgtg agtttcttca rttacaaatg ggcatttagt 1620
atagrtatat tgactataac atgtaagtaa atagctttct actgacccta agttatcaag 1680
```



```

gtggaaaaaa aacatgcaat tcagtaattg aaaatgtggt gaaaagctgc agctgtcatc 1740
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agaatggcgg ctgggtgatc tctttgctga attaatgagt tcttaacatg tggacccaac 1860
tgctgtgtgt agatctgtgt cttaaaactt actggaatgg aaatctatga attattgcaa 1920
attgtaatgc tggaaacaaa aaataaatcc ttggttaaag gggttgtaat ggtgaaaaaa 1980
aaaaaa                                           1986

```

```

<210> 106
<211> 591
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (565)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (567)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (583)
<223> n equals a,t,g, or c

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<400> 106
cgtttgttta gagaagatga atttttaaaa agcagataaa ttgctaataga gcaataatga 60
ccttatcttt accaaaacac tgaaaattaa gagagggtca gtgttgaaga agcacaatat 120
gtgcggtgt ctttttctag aagtgaatgg aaatcttgct cagttggcat ttcaagcagg 180
aaatgaaatg cttgctttaa tggcaaagca gcgttaacat ttttcctgtc gtgtagcaga 240
gagtacaaga atcatttcag caaagcagtg actcaccatg agacgttatc tccatggagc 300
tgcgttttga cttttccac tctcttactc atagaaggag gacaaaggaa cgaaatgaaa 360
tcattgtcac aatgaaactg ttcattacat caactgatct ctctctctct ctcttctct 420
ctttctcttt ctcccatacc ccaaggcaaa atttttttta agaaatgact ttaaaaacta 480
tcatttctgt attttaatta catctcttag aaataaatta tgtttgcacc atagctttct 540
aggaaaaaaa aatgtgtttt taacngngtc ttggtggctt agngctttat t 591

```

```

<210> 107
<211> 153
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (144)
<223> n equals a,t,g, or c

```

```

<400> 107
tcccccgggc tgccagaatt cggtcagagt gcatccttac ctttgttgcc agctgctgtt 60

```

```
gctgccccct ttgatgatga tgacaagatc gttgggggct acawctktga ggagaaattc 120
tgtcccccta ccagggtgtcc ttgnaattct ggc 153
```

<210> 108

<211> 1536

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1482)

<223> n equals a,t,g, or c

<400> 108

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aattcggcac gacggaactg ccacgatgct gccacttttg actctttcac tgctgctggg 60
agcagtagca ggaaaaagaag ttgctacga aagactcggc tgcttcagtg atgactcccc 120
atggctcagga attacggaaa gaccctcca tatattgcct tggctccaa aagatgtcaa 180
caccgccttc ctctatata ctaatgagaa cccaaacaac tttcaagaag ttgccgcaga 240
ttcatcaagc atcagtggct ccaatttcaa aacaaataga aaaactcgct ttattattca 300
tggattcata gacaagggag aagaaaactg gctggccaat gtgtgcaaga atctgttcaa 360
ggtggaaaagt gtgaactgta tctgtgtgga ctggaaaggt ggctcccgaa ctggatacac 420
acaagcctcg cagaacatca ggatcgtggg agcagaagtg gcatattttg ttgaatttct 480
tcagtcggcg ttcggttact caccttccaa cgtgcatgtc attggccaca gcctgggtgc 540
ccacgctgct ggggaggctg gaaggagaac caatgggacc attggacgca tcacaggggt 600
ggacccagca gaaccttgct ttcagggcac acctgaatta gtccgatttg accccagcga 660
tgccaaatth gtggatgtaa ttcacacgga tgggtgcccc atagtcccc atttggggtt 720
tggaatgagc caagtcgtgg gccacctaga tttctttcca aatggaggag tggaaatgcc 780
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tcgagacttt gcggcctgta atcacttaag aagctacaaa tattacactg atagcatcgt 900
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tctcaaacca gatagtactc attccaatga atttgactca gatgtggatg ttggggactt 1260
gcagatgggt aaatttattt ggtataacaa tgtgatcaac ccaactttac ctagagtggg 1320
agcatccaag attatagtgg agacaaatgt tggaaaacag ttcaacttct gtagtccaga 1380
aaccgtcagg gaggaagttc tgctcaccct cacaccgtgt taggagacta ctgttatttg 1440
accaatgaat tgacttctaa taaaatctag tggatgatgca anaaaaaaaa aaaaaaaaaa 1500
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagg 1536
```

<210> 109

<211> 512

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (58)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (60)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (512)
<223> n equals a,t,g, or c

<400> 109
tggaacggtc ccttcgacgc cgcacctgna aacttcaatg ccatgccgcc caagncgncn 60
ggatgacgtg gcacagccaa gaaacagtct gggagaatcg aagttccaac aagtgtccgt 120
ggaccctgcc acatatggac agttctatgg aggcgacagc tacatcattc tgtacaacta 180
ccgccatggt ggccgccagg gcagataatc tataactggc aggggtgcca gtctaccag 240
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cctgtccagg tgagcccagc ccaccscctc tctgggctgc agcctgagcc ttgtccttct 360
cttcaactcat ctgtctgact ctcattccatc cattcgtttg tccatctgtc tgtctgtcca 420
tscatccatc catccatcca tccatccatc catccatcca tssaacagrt attgattcct 480
gggctgactt cgagcttaat atttttttat tn 512

<210> 110
<211> 1455
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (786)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (846)
<223> n equals a,t,g, or c

<400> 110
ggcacgagcc caccagcct gccccaggt ggacatccca gccacctaga ccttcctgtg 60
agtgaacccag ccccttccac tctcagactg gcctattggt gtgggccccg tgaggcagtc 120
ataacacagg gatgaaacct ggctctgsca cttcccaagg tgggtgactt cacttctctg 180
agcctcagtt tcctcttctg agcatgggcc tgaatgagac gtgtgtaaag taccaagcac 240

```
agtggtagc caatggaaga cacgcagyta gccaccagca gtcacacca aagatgcctc 300
tgatttgtga ctctgaaaat tcttgcaaag ctgagaaggt gaaattcctc tggctatatt 360
gttgacaaaa ggccctcctc tgtaagagtg aattgcacgc tcacttgaaa ctatcttgag 420
ggactaaggt gtacaatcct ggtgcttatg cagtttgggg ctctaggtag acacgagctg 480
gctttgaaat tgtagattcc tacactcccc ctttctrgag ttctgggtct aagtgaattg 540
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gcttctaggc acagtgtgca ccctgattat tcccaccact ccatccaact tttctctctc 660
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tgtgcctcgg cgccccccgg cccacatcag cagtgtcagg caggcctcca cccagggtgcc 780
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gatcacgggc atgctgctgg agattgacaa ctcrgagctg ttgctcatgc tggagtctcc 1140
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ggagcagccg aaggcgtaca tgactgaaa ccagaaaagg aaatcctcgc ttccatggct 1260
gcaaaaagga cagtgtttct ggcctcagc cctaaggccc tgcaaaactct aacttatttc 1320
ccaattagtc tgtatctata cttgggctct gtatgtgaat gaagggttgt caccatcca 1380
gcctattacc ttttgctttg tgtattaaaa gtgtgcaaa atcaaaaaaa aaaaaaaaaa 1440
aaaaaaaaa aaaaaa 1455
```

<210> 111

<211> 675

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (617)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (647)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (659)

<223> n equals a,t,g, or c

<400> 111

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gtggtttccg cccggcagcc cgcagcccgc tggccgccct tcgtctgggt ctccgcccc 60
aggaccgcg gccgagagct ccggagcgcg gcttccccgg ccggctgcgc gatgggctgc 120
gggaactcca ccgccaccag cgcgggcgcg ggccaaggcc ctgcaggagc agccaaagat 180
gtaacagaag aatccgtaac agaagatgac aagaggagaa actatggagg agtatatgtt 240
ggcctacct ctgaagctgt caatatggtg tccagtcaaa caaagacggt tcggaaaaat 300
tagaagaaaa taacatcatg actcaagaat caagagcttg ctcacagtt tggaaggaat 360
ttggctccgt gggacgttgt aatgtgcaca gacatttcca aggaaattct aaacagtcac 420
ccttcccttt tgcattcccc caaatcttaa gtgtatacat aaaaccctgg gtacatattg 480
```

```

ttgtggtaat agaaggggaat tggttaaaca gtacacttgt ttatgggract ttctgtggcc 540
acctacgaaa gacaagttac aamctscakg gaggcygttg ttgccagacc aggggcccgc 600
gcattttgac aacattncca ccctggccac tcagcacatt tcatggnggg catgccttnc 660
actgaacctt ttgat 675

```

```

<210> 112
<211> 548
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (521)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (545)
<223> n equals a,t,g, or c

```

```

<400> 112
ggcacgagtg aacctccagc tttagcaact catatatcag tctctcacat ggccacaatt 60
ctagacaaaa accaaagacc cagaggccag agcaaagtag gacctccaca cagcaggtga 120
tttcccgtgt gacatatttt cttcatagtc cctaataatag tcctcctcta cagagttggc 180
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agagactgtg tttcaactct ctttycattg ctgtttccar aagagtggag agtgtggttt 480
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tttcnttt 548

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<210> 113
<211> 476
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<222> (342)
<223> n equals a,t,g, or c

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<400> 113
ggcasagagg cgtcggtrct cagcgggtgtt ggaacttcgt tgcttgcttg cctgtgcgcg 60
cgtgcgcgga catggcctca aacgattata cccaacaagc aacccaaagc tatggggcct 120
accccacca gcccgggcag ggctattccc agcagagcag tcagccctac ggacagcaga 180
gttacagtgg ttatagccag tccacggaca cttcaggcta tggccagagc agctattctt 240
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tgaatattgc ttttcttttt cttgtttttt ggagacggag tntggtcctg ttgccaggcc 360
tggagtgcag tgggtgctgc tcagcttcac tgcaacatca gcctaccggg ttcaaacgaa 420
tтыtcctgc ctcagcctcc tgagtagctg ggaattacag gtacctgcta accaag 476

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<210> 114
<211> 1016
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (885)
<223> n equals a,t,g, or c

<400> 114
ggagctgcag agaaatttcg tgaacatcgg ccaactaagc tgaagagcct cctgcgcctg 60
gtgaacactg gtaccagcag gcccatcatc ctggatccgg ccgacccac cctcaacgtg 120
gcagaagggt acagatggga catcgttgct cagagggcct ccagtgccct gaaacaggac 180
tggtgctatg acaacaggga gaacccatc tccagctgga acgtgaagag ggcacgagac 240
atccacttga cagtggagca gaggggttac ccagatttca acctcatcgt gaacccttat 300
gagcccataa ggaagggttaa agagaaaatc cggagaccag gggctactct ggcctgcagc 360
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ccaaatatgg gatcttctcc cacactcaca tctatctgct ggagaccatc ccctccgaga 480
tccaggtctt cgtgaagaat cctgatggtg ggagctacgc ctatgccatc aacccaaca 540
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gttcaaycac tttgtcccat tgtctacttg gaaggttccc aggtcttcca ccagttttac 840
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ggccgaggtg ggaggagcgc ttgagccgag gagttcaaga ccagcctggg tattataggg 960
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<210> 115
<211> 494
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (366)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (426)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (449)
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (490)

<223> n equals a,t,g, or c

<400> 115

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gtcatggact atgatcgagt gggccacaat gagatcatag gagtctgtcg tgtggggatc 180
actgctgaag gcctgggcag ggaccactgg aacgagatgc tggcataccc ccggaagccc 240
atcgcacact ggcactcctt ggtggaggta aagaaatcct tcaaagaggg aaaccctcgg 300
ttgtgatttc attcacgtgg atgctgcaac agaagagact gccacctgga gttaggatgg 360
cagggncgag ctgctagctt cgacagttag agctcgtgcc catttccgaa accacttcca 420
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acgttaaaan gttt 494
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<210> 116

<211> 3236

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (33)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (51)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2923)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3235)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3236)

<223> n equals a,t,g, or c

<400> 116

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ccttttgnaa aaatcgatcc atttgggtggt gancctttca aaggttcaga nccatttgca 60
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agtgcagcca acaatagcag tattacatcg gtagaaacgt tgaagcaca tgatcctttt 180
gctcctggtg gaacagtgtg tgcagcaagc gattcagcca cagaccctt tgcttctgtt 240
tttgggaatg aatcatttgg aggtggattt gctgacttca cacattgtca aaggtcaaca 300
atgaagatcc ttttcgttca gccacatcga gctctgtcag caacgtagtg wttacaaaaa 360
atgtatttga ggaaacatcg gtcaaaagtg aagatgaacc cccagcactg ccaccaaaaga 420
tcggaactcc aacaagaccc tgccctctac cacctgggaa aagatccatc aacaaatttg 480
attctcctga tccctttaa ctgaatgatc ctttcagcc tttcccaggc aacgatagcc 540
ccaaagaaaa agatcctgaa atattttgtg atccattcac ttctgtctact accactacca 600
ataaagaggc tgatccaagc aattttgcca acttcagtgc ttatccctct gaagaagata 660
tgatcgaatg ggccaagagg gaaagtga gaagaggaaga gcagaggctt gcccgactaa 720
atcagcagga acaagaagac ttagaactgg ctattgcact cagcaaatct gagatatcag 780
aagcatgaag aattctcttg tcttttgcca acaatatagt attcttcttc ctgaatactg 840
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atcccatcca tatatccaat ttgcaattga gttttgcatg gttctctgat tatgtccatg 3120
ctgtgtccaa ggaggagtag gtacatacaa tcagcacaga ttaatatatg taaaggggtt 3180
gggacagcac ctggtataga ataaataata aatgtaaact attaaaaaaaa aaaann      3236

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<210> 117

<211> 911

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (688)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (873)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (910)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (911)

<223> n equals a,t,g, or c

<400> 117

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gaggcccaac agctggccctt ggcagggtctc cctgcagtac agctccaatg gcaagtggta 180
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cagctcctcc aggacctacc gcgtggggct gggccggcac aacctctacg ttgcggagtc 300
cggctcgctg gcagtcagtg tctctaagat tgtggtgcac aaggactgga actccaacca 360
aatctccaaa gggaacgaca ttgccctgct caaactggct aaccccgctt ccctcaccga 420
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ctacgtcacg ggctggggaa rgctgcagac caacggggct gttcctgatg tcctgcagca 540
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agcttcgggt ctcgcctcgg ctgcaactac taccacaagc cctccgtctt cagcggggtc 780
tccaattaca tcgactggat caattcgggt attgcaaata actaaccaaa agaagtcctt 840
gggactgttt cagacttgga aaggtcacag aangaaaata atataataaa gtgacaacta 900
tgcaaatccn n                                     911

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<210> 118
<211> 1977
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1948)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1958)
<223> n equals a,t,g, or c

<400> 118
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gaggaaaggc gaactagtgt tgggatggcc accaactggg ggagcctctt gcaggataaa 120
cagcagctag aggagctggc acggcaggcc gtggaccggg ccctggctga gggagtattg 180
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gagggcattg ccagactgts wkcttcwgv wtccscwag actgtgttcc tgggcctgaa 480
tcgctcagac tacatgttcc agcgaggaa gatggctccc cagccctgaa acagatcgaa 540
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aggaggggga gtggagggca tagcctttcc ctaattctgc cttaaataaa actgcattgc 1920
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<210> 119

<211> 804

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (99)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (756)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (803)

<223> n equals a,t,g, or c

<400> 119

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ttgtttttta gcccacaca acattgataa ctgatgttna aactgcttga gcatcaggat 120
actcaaagtg gaaaggatca cagatttttg gtagtttctg ggtctacaag gactttccaa 180
atccaggagc aacgccagtg gcaacgtagt ractcaggcg ggcaccaagg caacggcacc 240
attggtctct gggtagtgtc ttaagaatga acacaatcac gttatagtcc atggtccatc 300
actattcaag gatgactccc tcccttcctg tctatttttg ttttttactt ttttacctg 360
agtttctatt tagacactac aacatatggg gtgtttgttc ccattggatg catttctatc 420
aaaactctat caaatgtgat ggctagattc taacatattg ccatgtgtgg gagtgtgctg 480
aacacacacc agtttacagg gaaagatgca ttttgtgtac agtaaacggt gtatataacct 540
tttgttacca cagagttttt taaacaaatg agtattatag gactttcttc taaatgrgct 600
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gtgaaacctc cagcatattc ttcacgsaga gatttycatc tattatactt tatcaaagat 720
tggccatgtt ccactkggaa atggcatgca aaaacnatca tagaaaaaac ctgcgttact 780
ccatctgacc aattccaaag aana 804

<210> 120

<211> 737

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (707)

<223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (713)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (715)
 <223> n equals a,t,g, or c

<400> 120
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 ttgtctcaag tgagcatgat gagggtttat ctttctcagg aaagggtgcag tgctatggta 120
 gggagttaaa ccagcctgcc tcagctgccca atgacacagg tgacttcagt ctttctcctg 180
 aaaaactggg aaaaatcagga aatccattgc agccagttag tatagagaat agaaatttgg 240
 acttaaaaca tcttgtcttg gagtccagt aacctccatt tggtcctaga aatgttattg 300
 aaaataagtc tttgtctgac acattggttt ccacaactgc accaagtggg atagtgaatg 360
 tgtcagtaaa acagcagact agccctaata gcagtcagaa ccatctcttt cccggtgatt 420
 tgaaaacaga tgaaggcatt tatctgcagg tgaagtcctt gacagctgcc tcggttgatg 480
 gagcttatcc tacacaggga tgcatgtgct cagtgggtccc cacgctttgt tcttcctcag 540
 acaatgctac attaacccat tatgtaagac caataaatgc agagccagcg tttcaagcac 600
 agaataccag caggcagaat ggccagtttg cttaagaatg gtgagcctga agctgagtta 660
 cataaagaaa ccacagggtcc aggcactgct ggccctcagt ccaacancac atntngtttt 720
 aaaaggtgaa cgcaaag 737

<210> 121
 <211> 1252
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (65)
 <223> n equals a,t,g, or c

<400> 121
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 aaagaactga gaactattat caattcttcc tttggagtcc atcttcaatg gaaaggagaa 180
 gggaaaacct tttttaaaaa gaagaaagaa aactgaagtt tttgatttga ctagagaaat 240
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 ccttgaccat gtaaatttta caccacatta tgtcaacagc atgtaccttc cacattgagt 360
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 ttattatgtt ggtaaatttta gcttttggtt tttcactttg ctctcatgat ataagaaaat 540
 gtaggtttct ctttcagttt gaattttccy attcagtaaa acaacatgct agraacmaa 600
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 aggtaccttg tcatgtcaga attgggggtg ttaggttgcc agttgtatca gtgttgattc 840
 atttcattac ttcctacaga gcaaacatga acgttgaggat tgcccacagt gaagtgaatc 900

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tgcttcatat  tgtcttactc  agcattccct  tcttcagtgt  tcctgttgct  tggactttta  1020
caaatattat  acataatctg  gggatgtacg  tatttttgca  tgcagtgaag  ggaacacctt  1080
tcgaaactcc  tgaccagggt  aaagcaaggc  tcctaactca  ttgggaacaa  ctggactatg  1140
gagtacagtt  tacatcttca  cggaagtttt  tcacaatttc  yccaataatt  ctatawtttc  1200
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<210> 122

<211> 1848

<212> DNA

<213> Homo sapiens

<400> 122

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<210> 123

<211> 463

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature
 <222> (52)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (59)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (262)
 <223> n equals a,t,g, or c

<400> 123
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 ccatgcctaa cttttccctt gagtgcattg catgttttgt tacaggttgt agagtatttg 120
 cagaaggaaa ccatttctgg ttatttggct ataaaaagtc agcataaaat atgatccaac 180
 taaaagggat taatttttgg catttttgta tatttatgca ttaggtgatg ggacttttaa 240
 aggtttgaat ttattaggac angaactaaa aataaaaagt cactagggga cagttrattt 300
 maatctaaga aaagttaaca cttgggraat tacaagaagt aaaacaagt cactaaatc 360
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 taaatgtaag gtacgaattt tacatattaa acttttcttc ccc 463

<210> 124
 <211> 350
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (321)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (323)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (341)
 <223> n equals a,t,g, or c

<400> 124
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 aaccgtcaaa ttggccagtc ggcttttraac atcatcgaga agcacttttg tgagaaaacc 120
 tccagaagca acctcctgwa ctcaaagatt aaggaaacag tcaagccaac gaggaaccag 180
 ccgtcgggtc ggggagaaaa aacaacaaaw ttaagcaatg aaaggtttcc aggtcaggaa 240
 cacctggggg ttaggaacag ggcctgcac ccaggttaag cagagagttg atgtcttggt 300
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<210> 125
<211> 1584
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (533)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1466)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1494)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1514)
<223> n equals a,t,g, or c

<400> 125
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ggaactgagg aagcagcttg gcagcgtggc cacaggctcc acgctgcagc agtctctgga 120
acttaaaaga aagatgcttc gagacaagca gaacaaaaaa aattcaggcc agcacctccc 180
catcttccca gcatgggtgt atgagagacc tgccctgata ggggatttcc tgattggtgc 240
tggcatcagc acagacaccg ctttgccgat agsacgttgc ccctggcctc gcaggagtcg 300
gccgtggtgg aggacctgct gtacgtgctg gtgggcgtgg acgggaggta cgtcagtgc 360
cagcccctgg ctgggaggca gagccgracc ttctcgtgg accccaacct ggacctgtcc 420
atcaggagc tgggtgcacag gatcctccca gtggccgcca gctactccgc tgtgaccagg 480
ttcattgaag agaagtcttc cttcgagtac gggcagggtga accacgccct gngggccgcc 540
atgcgcaccc tgggtgaagga gcacctgatt ctggtgtcac agctggagca gctgcacagg 600
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tgccctgtacc taaccaaggc ggccagtgtc ccctacttcg aggttctgga gaagtggatc 840
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aaggagagga tccaggagga ttacaacgac aagtactggg accagcggta caccatcgtc 960
cagcagcaga tcccgctcct cctgcagaaa atggcggaca agatcctcag cacaggaaaa 1020
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gacctgatgc cccatgacct catcactcag ctcttgccgc tcctggccat cgagaccaag 1440
caggagaagg cgatggcgca cgcgancccc acggagctgg cgctgagcgg cctnggaggc 1500
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ggttcgggctg cttcggggca actg 1584

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<210> 126

<211> 1304

<212> DNA

<213> Homo sapiens

<400> 126

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cagggcactg agtgattctg gatgggcttc tgacctgggg acaattttaa cagcattaca 60
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aagatgtgat ccactttgcc tgggaagaga agctctttct cctggctgat gaggtgtacc 180
aggacaacgt gtactctcca gattgcagat tccactcctt caagaagggt ctgtacgaga 240
tggggcccga gtactccagc aacgtggagc tcgcctcctt ccactccacc tccaagggct 300
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tcaagggcca gctggtgaag ctgctgtcgg tgcgcctgtg cccccagtg tctgggcagg 420
ccgccatgga cattgtcgtg aaccccccg tggcaggaga ggagtccttt gagcaattca 480
gccgagagaa ggagtcggtc ctgggtaatc tggccaaaaa agcaaagctg acggaagacc 540
tgtttaacca agtcccagga attcactgca accccttgca gggggccatg tacgccttcc 600
ctcggatctt cattcctgcc aaagctgtgg aggctgtcga ggcccatcaa atggctccag 660
acatgttcta ctgcatgaag ctccctggagg agactggcat ctgtgtcgtg cccggcagtg 720
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caggctgaac tcgcctcccc cgtgactctg cctcgggccc cgcagaggcc gctgggtcact 960
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<210> 127

<211> 901

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (598)

<223> n equals a,t,g, or c

<400> 127

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tggctatggc tagtggttaa ttgcttgccg gtgttttaag aaagccagat gcctggattg 120

```


<213> Homo sapiens

<223> n equals a,t,g, or c

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aaagatgttt	tccatgagga	tcgtctgcct	ggtcctaagt	gtggtgggca	cagcatggac	120
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tgtggaaaga	catcaatctg	cctgcaaaga	ttcagactgg	cccttctgct	ctgatgaaga	240
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agattttaca	aacagaataa	ataagctcaa	aaattcacta	tttgaatatc	agaagaacaa	360
taaggattct	cattcgttga	ccactaatat	aatggaaatt	ttgagaggcg	atttttcttc	420
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<210> 129

<211> 1682

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<400> 129

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ctaaaggctt tgggtgcattg cagcgttttc tcccagcagc tgtgtgaaag atgcattttc 180
taagctaagg agaattttct caagagtggc atactcatgc caaatattat tgctctgggc 240
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ctactccagg catccagtcc ttacagacca aggaagagca tagcgatgcc tgttggaatt 360
gcagatgcac tctggccttc tccccgtcc tgaaacattt tctttgagga aggtctcttag 420
aacattagat agtctgctga ggttgctggc ccagctccat acaccagta gaacagtggg 480
acaactcatg cttcatgctg ccaagctgct gtacttcaaa ggaaacagat ctagcacact 540

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gctgcacccc tgcttcacaca ctccacactt caccgccgtg cttttctctg acccgcccct 600
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acaacgtata atgggtgggg gatccgatca tgggtgatgta cggggtgaaat tctcttgccg 1620
tgttgcaaat gtgtaaaata aagattatct ggcagaaaaa aaaaaaaaaa aaaaaaaaaa 1680
at 1682

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<210> 130

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (300)

<223> n equals a,t,g, or c

<400> 130

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accacgcgt ccgagtcaca atgccaaaggc tgacaccta gaaataacca gtgagatagg 60
catcccggt gcttcaatgt cggatatggg cacttcttgc tttggcttat aaagtgtggg 120
ggaagtgatg tgtgacactt cctggcagga gctttcagaa ccctagtctt agatcgcgag 180
cggccgctct agaggatcca agcttacgta cgcgtgcatg cgacgtcata gctcttctat 240
agtgtcacct aaattcaatt cactggccgt cgttttaca cgtgactggt tcgaaaaaan 300

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<210> 131

<211> 105

<212> DNA

<213> Homo sapiens

<400> 131

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acagccagcg gggctgcgaa cctgtccatc agcgtgaaat gtgmcagggc gaggacgcct 60
grgacttctt tggccacagg tcacccctgaa ctgcaaacct ggagg 105

```

<210> 132

<211> 911

<212> DNA

<213> Homo sapiens

<220>
<221> misc feature
<222> (63)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (813)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (861)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (885)
<223> n equals a,t,g, or c

<400> 132
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agcgggtgtt ctcagaattg ataagaccat ggcacaaaac tgtgacgatt ggctttggag 180
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cattgatgag gagagcagtg tctttggtta cagatagcac ctctacctt ctctctcaga 300
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atcaaaactgg cgcagatcag gcctctataa ccgccaggaa tcacattcag ctggtgaaac 600
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aatgctccct t 911

<210> 133
<211> 3576
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2657)
<223> n equals a,t,g, or c

<400> 133
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gcttagtggc agagttcaca acatcactga caaacttcca gaaggccag aggcaggctg 240
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<210> 134

<211> 1193

<212> DNA

<213> Homo sapiens

<400> 134

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aagaggcatg gaaatataca tgaaactgaa gaacctgcaa graagggaag tggaactttc 360
catgctgagt gaaaactaac caagtggcag ttgtgactga aaacactgsa aacctaccac 420
gtccagattc actggattgg gggatagagg aacggtcaca gctagggaga aagaagtgat 480
accggaaaag aaacctaaat kaagagaatg aggatgactg cacagtagat ggccacctct 540
acctccacag aggcaaagtc agcctcgtgk tgggaattatt tttttcttta tgatggttcc 600
aaggtaaagg aagaaggcga tccaacaaga gctggcattt gttactttta tccttcccag 660
accctgctag accaacagga gttgctttgt ggacagattg ctggagttgt ccgctgtgtt 720
tctgacattt ctgactctcc tcctactctt gtctgtctga gaaaactgaa gtttgccata 780
aaagttagtg gagattacct ttgggtaagt tgaatggcag aatcagtgct gaagtgttgc 840
aatgataagt ttaggaagtt atgttgtttc tgagtcttga atttagaatt atctgcccc 900
accaacctca tccatgtact gtgttagta atcaccctcg cttcctgtgg tactctctgc 960
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tggtttctcc tttcctttca aagacttagg mcaacttgtg ggaaattctg tttactctgt 1080
gttgtaaat gagtttttat catcatcttt tcttctccat gctctctaca cttactgggt 1140
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<210> 135

<211> 1945

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (72)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1832)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1836)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1854)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1918)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1924)
<223> n equals a,t,g, or c

<400> 135
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gctaagagct tnacgcaggt ttggcctggg mtttcactgt tggagaattt agagtgtcct 120
tttaggtggg gcggctattc taaaagtgtc tttctatcac tgtaagggg ggcggaaagt 180
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taaagcaaga tgatacagaa agctgctcta aaatctcact gagtgatttc accttcgcct 300
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aacaaggcc atggataacc ctaccgctt tatgtcatta cccattggga aacacaatgg 480
ctacttctgt tagggtagat tgaccttggg caagcatcct aaagaaggca accctaattg 540
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gccaggagca gcaggctatg tgcacatgcc gttgcagcac aagcttatgc ttcccgtagc 1740
cgtggctttt cattctgcac agtcccaggt cccagctccc ctcttatggg tttctgtcat 1800

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aatgtgcttt atctgattga ctcccaaaca tnccgnaatg tcacctgcag attnctcgtg 1860
ggaaccaata tgtacatggt tgcaattatg ctgtgagaat taaatggtgt aagatggnaa 1920
atgncattgg caggggaata ataat                                     1945

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<210> 136
<211> 1146
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<222> (130)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (759)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (790)
<223> n equals a,t,g, or c

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<400> 136
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ccaccaggn cagggtttgg ggtggtctct tctgtgcctg cagtcccat ttgacacttg 180
gttgccacca tctttggaga ttattgtttg gaatgatgct tccattggct ttttcttgtt 240
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cgccttcctg aattggcagt ggtcagagca cacctgaacc ctatcctggg ctggtgatga 360
gcagaaatca gacctttttc tatgcttttt tgaatatcag agtaggatga acaccagat 420
tcaaatatgt caccaaagtt ggtggtggtc cttccctgca cscttgcggt aagccattat 480
gtaatgaaaa tgtgtttgct tgaaggaaca gctcaaagca ccttcacaag ttgccttgac 540
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tcttctgcct ctccccctt gattcagctt tcagaggtac tatggcagtt ttgcctcagg 660
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gttccattcc ccatctcagg gactcctgaa tattcagctc tccaggytgg tgctcytmtr 1080
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ttgat                                     1146

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<210> 137
<211> 2345
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<222> (184)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (339)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1805)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1887)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2325)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2339)
<223> n equals a,t,g, or c

<400> 137
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gggccagcag aggggagcag agatacccyt gggggccgca gcgatgggga tacagacagc 120
gtcacacccat ggtggtccac gacgtcgagg agatcaccgg gacccagccc ccatacgggg 180
cggncacccat ggtggtccag cgcacccctg aagaggagcg gaacctgctg catgctgaca 240
gcaatgggta cacaaacctg cctgacgtgg tccagcccag ccactcacc accgagaaca 300
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ccttctcctc cctccccccy cmccctcct caatgtagtg gccttgata tcctgttgt 2280
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accaa 2345
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<210> 138

<211> 731

<212> DNA

<213> Homo sapiens

<400> 138

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cttctttcag aaatgaggac ttacccagc tactatgaaa gctgttgga gagtgccctc 180
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cacctggccc tctttgatc agggcacttc tgaaggggtca tataatcttc agaccttctg 300
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cagttccacc ttgccttccc tcatgttgat gtcaagagcg tccctagca aactcccaa 420
atgccaatct ccagcttaga ttctgcttcc tgggggaaac tgaactgtga cagttactaa 480
tacaaagrat yaatawtttt atgtcacatt atacttagat agcttgaaat atatatgcat 540
ctagttaactt aatacattat taaaaaactt ttactatat cgaaaattac tttttaaaca 600
ttttagtaac tgtatttcaa gataattttc tgtgttatcc tatgcctttt attttatgca 660
tcttaaaaca tcattctgag aaggacctat aggccttatc actgccaaag gagtccatgg 720
caaaaaaaaa a 731
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<210> 139

<211> 757

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (734)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (746)
<223> n equals a,t,g, or c

<400> 139
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cggcggaaca tcgacgccag ccagctgctg gacgacggga atggcgagaa ctacgtggac 180
tacgcggacg gcatggaaga gatcttcggc tctctcaact ctctgaagct ggagattgag 240
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agggattcct tcaaggttta ctgcaacttc acagccgggg ggctgacatg cgtcttccct 420
gacaagaagt ccgaagggcc agaatacatt cttggcccaa agaaaacccg ggctcctggt 480
tcagtgaatt caagcgtggg aaactgctct cctatgtgga cgccgagggc aaccctgtgg 540
gtgtggtaca gatgaccttc ctgcggctgc tgagcgcty tgcccaccag aacgtcacct 600
accactgcta ccagtcagtg gcctggcagg acgcagccac gggcagctac gacaaggccc 660
tccgyttcct gggtccaac gacgaggaga tgtcctatga caacaacccc tacatccgcg 720
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<210> 140
<211> 663
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (558)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (646)
<223> n equals a,t,g, or c

<400> 140
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cgg 663

<210> 141
<211> 3935

<212> DNA
<213> Homo sapiens

<220>
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<222> (43)
<223> n equals a,t,g, or c

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<210> 142

<211> 2212

<212> DNA

<213> Homo sapiens

<400> 142

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<210> 143

<211> 743

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (412)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (742)

<223> n equals a,t,g, or c

<400> 143

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ccaagatggc tgtgatcccc tctactccgc cgaactcgcc tatgcagaca cccacatcct 660
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agccacgcag actccatcct gna 743

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<210> 144

<211> 839

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (768)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (812)

<223> n equals a,t,g, or c

<400> 144

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tctgttcagt ttgctgttgk gtttttttcc ccatgtttgg gtggtggggt acaggggaata 720
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<210> 145

<211> 2907

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2882)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2884)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2903)

<223> n equals a,t,g, or c

<400> 145

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<210> 146

<211> 1837

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (269)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1612)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1757)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1790)

<223> n equals a,t,g, or c

<400> 146

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caattcactg gccgtcgttt tacaacgtcg tgactgggaa aaccctggcg ttaccaact 1740
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<210> 147

<211> 1371

<212> DNA

<213> Homo sapiens

<400> 147

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agccagcac aggtgacaac atccgggaat tcttgctgag cctcagatac tttcgaatct 180
tcattcgccct gtggaacatc ttcattgatg tctgcatgat tgtgctgttc ggctcttgaa 240
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ctgatgactt caagaatgtt tttgaccaga aaaccgacaa ccttcccaga aagtccaagc 360
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ttcaagata gtttcacttt ggtctctgaa ttgaaatgct gtctactgaa agggtttcag 480
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<210> 148

<211> 1757

<212> DNA

<213> Homo sapiens

<400> 148

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gaaggggaga taagggtgta actgggacta gccaggggga ccaacacaaa tggtagggga 180
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ttttaacaa aaatggg 1757
```

<210> 149

<211> 3532

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3276)

<223> n equals a,t,g, or c

<400> 149

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ctacctatta aaaggacct acgagtccta gatgtcaata accagtcctt cagagaacaa 240
gaggagccaa gcaataaaa agttcgacct ctggctcgtg tcacgtcctt ggcaaattta 300
```

```

atctctcctg taagaaatgg agctgtcaga cgttttggtc aaacaatata gtcatttacc 360
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ccaacacccg ccaagagaag gagcagtgcg ctgtggtcag agatgctgga catcaccatg 480
aaggagtctc tcaccaccag ggagatcaga cggcaggagg caatatatga aatgtcccga 540
ggtgaacagg atttaattga ggatctcaaa cttgcaagaa aggcctacca tgaccccatg 600
ttaaagttgt ccatcatgtc agaagaggaa ctcacacata tatttggtga tctggactct 660
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111

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ttcaaccttt gaaatcattg atgaatcagc gaaaggtagg taagtcttgt gttaggaaat 3420
cttttaagaa catggtgtaa tccagacaca gcaattggta ttgaaaataa ctgaacacct 3480
ggtaccttcc tggataggat agtaagggtg gtagtggcaa ggatcctgat ta          3532

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<210> 150

<211> 1931

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (311)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (314)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1859)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1897)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1923)

<223> n equals a,t,g, or c

<400> 150

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gctgcttccc cagaggaaga agaagaaagt gaagatgagt ctgagatttt ggaagagtcg 300
ccctgtgggc nctnggcaga agaggcgaga agaggtgaat caacggaatg taccaggat 360
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acagttctct gaacgcaaga actacaagct gcaggaggaa aagggttcgtg ctgtgtttga 480
taatctgatt caattggagc atcttaacat tgtaagtatt cacaatatatt gggctgacat 540
taaagagaac aaggccaggg tcatttttat cacagaatac atgtcatctg ggagtctgaa 600
gcaatttctg aagaagacca aaaagaacca caagacgatg aatgaaaagg catggaagcg 660
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ccatgggaac ctgacctgtg acaccatctt catccagcac aacggactca tcaagattgg 780
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tctacacttc ttgaccacag agtatggaga agtcactaat gtgacaacag cagtggacat 900
ctactccttt ggcattgtgt cactggagat ggcagtgtgt gagattcagg gcaatggaga 960

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ttccccccar tcagtattac cctgtgaagc cccttccctc agcagccgcc ttctagttn 1860
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gancgaattt a 1931

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<210> 151

<211> 1631

<212> DNA

<213> Homo sapiens

<400> 151

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ggggatgggg gtatgcagct tggcactggt actgggaggg atgaggggtga agaaggggag 180
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cgctcgaaat t

1631

<210> 152

<211> 732

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (729)

<223> n equals a,t,g, or c

<400> 152

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agatgactcc cgtgactccc aggttaagag tgagggtcaa cagcctgtcc atcccaagcc 120
actaagtcca gattccagag cctccagtct ttctgaragt tctcctccca aagcaatgaa 180
gaagtttcag gcacctgcaa gagagacctg cgtggaatgt cagaagacag tctatccaat 240
ggagcgtctc ttggccaacc agcagggtgtt tcacatcagc tgcttccgtt gctcctattg 300
caacaacaaa ctacgtctag gaacatatgc atctttacat ggaagaatct attgtaagcc 360
tcacttcaat caactcttta aatctaaggg caactatgat gaaggctttg ggcacagacc 420
acacaaggat ctatgggcaa gcaaaaatga aaacgaagag attttgagga gaccagccca 480
gcttgcaaat gcaagggaga cccctcacag cccaggggta gaagatgccc ctattgctaa 540
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caagccagct gaaaccaaga agctgaggat cgcctggcca cccccactg aacttggaag 660
ttcaggaagt gccttgaggg aagggatcaa aatgtcaaag cccaaatggs ctyctgaaga 720
cgaatcagna ag 732
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<210> 153

<211> 494

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (115)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (471)

<223> n equals a,t,g, or c

<400> 153

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atgcagtact ttgtggccaa gaagaaattc cagcaagcgc ggaagcctta cgatgtgcgg 180
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agcaaggatc gcggcacaaac acgatcggcg cccgctggaa ccgagtagga agacaaggtg 360
acgcagtggg accagaggyt ggcactcatc accgacatgy ttcaccagtg gtctccttgc 420
acgggtgggca gcacccccgg cagcggcggg cccccccaga gagggcgggg nccacattca 480
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acccagcctg gggg

494

<210> 154

<211> 2441

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2435)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2437)

<223> n equals a,t,g, or c

<400> 154

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gtatgattag gccacaatct tcaatgagta aacatattcc tcaattctgt ggtgttcttg 180
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tctatgcaga caagtgaact gtagaaactg attactgctc caccaagaag cccccataag 300
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tgtattgctg ttcattgctg tgcaggcctt gggagagctc cagtacttgt tgccctagca 960
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cctcaagcta gacagatttg gcaacctctg tatttgggtt acagtcaacc tatttggata 1320
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cttccccaa atcatgcagt attgagttat gacttggttaa atctattccc atgccagaat 1440
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<210> 155

<211> 2947

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1727)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2109)

<223> n equals a,t,g, or c

<400> 155

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agctgaacat ctaacactag ctatctcttg ctagatctcc ttgctcagca tataactata 60
aatacatgta aaattacatg tatatggcta tatttttatt tgcttgctcc tagaagagaa 120
aaaaaaaaatca actttgaatc acaactagga attgatgctt taatttttgg atactttttc 180
agaattttta atttactatg gtccggccta agatcctctg ttgtatcagg ttttgtgcac 240
aaaagaaaag caaaaaagtt gaatgcacat ggggcatgtg ctttctgtgc accaaatata 300
tggatgaggt tcttttttca ggcctacagt caaatctgtg tccagaattt tttgactttt 360
ttgctttgta taatcataga attcattgct gctgatttct ataatgattc atgttgtcat 420
gtgtctctta ataactgagg gctgtcagta acctgtgatt ttgccttttc tatagtctta 480
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atctgtacaa atcttggttg tatagactac tttctggaaa atgggtcaaga taagtcatg 720
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gtttgggtca gtttaaaaga tatgttgcaa agtatacata gaaaatgtga gcaatgcctc 900
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attttgtaaa gcggaaaatc atgttacatg gaacatgtcc tgtatatatc acatacatgg 1260
taatggagtc ttaatgataa gtgcaagata ataatttaat gatgggatta gtctgatcgc 1320
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tgtacagaga gaaaaatata tataaaacat atgcttacat tacatgcacg cggatttcac 1440
gtcccataat cttttctatt ttttaattta cttttctgta aatgatgtgc atggaatatg 1500
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taatacaact tcagtgtcaa ttgctattaa gaaattttta gttgggctga gctggttctc 2640
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agctttatga tcctgatgat gttttttaa cacaataaag ttggatcttc catgttaca 2880
tcacagaatt aaaaccagta tttaaagtgg aaaagtatta aaatattatg gacaaaawaa 2940
aaaaaaa
2947

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<210> 156

<211> 666

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (609)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (614)

<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (638)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (653)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (657)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (664)
<223> n equals a,t,g, or c

<400> 156
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acaccagctg tccactcrc catggagaag atcctgatcc tcctgcttgt cgcctctctt 120
gtggcctatg cagctcctgg cccccggggg atcattatca acctggagaa cggtgagctc 180
tgcataaata gtgcccagtg taagagcaat tgctgccagc attcaagtgc gctgggcctg 240
gcccgtgca catccatggc cagcgagaac agcgagtgtc ctgtcaagac gctctatggg 300
atttactaca agtgtccctg tgagcgtggc ctgacctgtg agggagacaa gaccatcgtg 360
ggctccatca ccaacaccaa ctttggcatc tgccatgacg ctggacgctc caagcagtga 420
gactgcccac cactccac acctagccca gaatgctgta ggccactagg cgcaggggca 480
tctctcccct gctccagcgc atctcccggt ctggccacct ccttgaccag catatctgtt 540
ttctgattgc gctcttcaca attaaaggcc tcctgcaaac cttaaaaaaa aaaaaaaaaa 600
agggsgggnc ccgntctaga agaatcccaa gcttacgnaa cgccgcgcat gcnaacngtc 660
atanct 666

<210> 157
<211> 627
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (144)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (550)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (585)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (624)

<223> n equals a,t,g, or c

<400> 157

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gaggcgggcg tgccagtcctc tggacagcta cgacgccatg aatatcttgc ccaagaagag 60
ctggcacgtc cggaacaagg acaatgtcgc ccgctgctcg cgtgacgagg ccagggcccc 120
ggaggaggag aaggagcgtg asgnagggtg ctgctggctc agcaagaggc ccgtacagaa 180
ttcctacgga agaaagccag acatcagaac tcaactgcctg agcttgaagc agcagaggcg 240
ggagccccag gttctggccc tgtggacctg ttctggggagc tgctggagga agggaaagga 300
gtgatcagag gcaataaaga gtacgaggaa gaaaagcgac aggagaaaaga gaggcaagag 360
aaagctcttg gcatcctgac atacctgggc cagagtgcag cggaggcaca gactcaacct 420
ccttggtacc agctaccccc agggcgaggg ggccccccgc ccggcccagc cccagatgag 480
aagatcaaga gccgtctgga ccctctgcgg gagatgcaga agcatctggg gaagaagaga 540
cagcacggcn gtgatgaagg cagtcgcagc agaaaggaaa aggangggtc tgagaagcag 600
cgaccaagag agcctccatc cctngga 627
```

<210> 158

<211> 902

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (872)

<223> n equals a,t,g, or c

<400> 158

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cccacgcgtc cggcagggct cccaaaatgg cgagtgaggc tgcggggact cgctgagcag 60
cggaggggga gcgtgcagag ccgctgcggc cctcacagtc cggagcccgg ccgtgccgtg 120
ccgtagggaa catgcacttt tccattcccg aaaccgagtc ccgcagcggg gacagcggcg 180
gtcccgctac gtggcctata acattcacgt gaatggagtc ctgcactgtc ggggtcgcta 240
cagccagctc ctggggctgc acgagcagyt tcggaaggag tatggggcca atgtgcttcc 300
tgcatctccc ccaaagaagc tttctctctt gactcctgct gaggtagaac agaggagaga 360
gcagtttagag aagtacatgc aagctgttcg gcaagacca ttgcttgagg gcagcgagac 420
tttcaacagt ttcctgcgtc gggcacaaca ggagacacag cagggtccca cagagggaag 480
gtccttgga gtgctgctca gcaacgggca gaaagtcttg gtcaacgtgc taacttcaga 540
tcagactgag gatgtcctgg aggtgtagc tgcaaagctg gatcttccag atgacttgat 600
tggtactttt agtctattct tagttcgaga aaaagaggat ggagcctttt cttttgtacg 660
gaagtgtcaa gagtttgagc tgcttatgt gtctgtcacc agccttcgga gtcaagagta 720
taagattgtg ctaaggaaga gttattggga ctctgcctat gatgacgatg tcattggaga 780
ccgggttgcc ctgaacctgc tttatgctca gacggatca gatattgagc gtgggtggat 840
cttggtcacc aaggaacagc accggcaact ynaaatctct gcaagagaaa agttctccca 900
at 902
```

<210> 159

<211> 593

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (590)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (592)

<223> n equals a,t,g, or c

<400> 159

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ggtgctgcgg cctggggctg gagtccgatt gccgattcag cccagcagag gtgttcggca 120
gtggcagcca gatgtggaat gggcacagca gtttggggga gctgttatgt acccaagcaa 180
agaaacagcc cactggaagc ctccacctg gaatgatgtg gaccctccaa aggacacaat 240
tgtgaagaac attaccctga actttgggcc ccaacaccca gcagcgcag gtgtcctgcg 300
actagtgatg gaattgagtg gggagatggg gcggaagtgt gatcctcaca tcgggctcct 360
gcaccgaggg actgagaagc tcattgaata caagacctat cttcaggccc ttccatactt 420
tgaccggcta gactatgtgt ccatgatgtg taacgaacag gcctatttct ctagctgtgg 480
agaagttgct aaacatccgg sctcctcctc gggcacatgg atycgagtg gtgtggagaa 540
atacacgttt gwtgaacaca tcakgctgtg acacacatgc cctggacctn tng 593
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<210> 160

<211> 1847

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1761)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1765)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1818)

<223> n equals a,t,g, or c

<400> 160

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gattatcgag gctcccatgg catggcggtc acgttctttg agtaccgagc gtacaggtca 60
attatcaaag actacttcca ccgtggcgcc aagtggacaa cagctcctaa gccacaatg 120
gctgatgagc tttataacca ggattatccc atccactctg tagaagacag acacaaattg 180
gtgctcaggg gaaaatttgt gacaactgag tttgagccat gctttgatgc tgctgacttc 240
attcgagctg gaagagatat ttttgcacag agaagccagg ttacaaacta cctaggcatt 300
gaatggatgc gtaggcattc tgctccagac tacagagtgc atatcatctc ctttaaagat 360
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cccaatccca tgcattatga tgctaccttc aacatcattg gacctggtat tgtgctttcc 420
aaccctgacc gaccatgtca ccagattgat cttttcaaga aagcaggatg gactatcatt 480
actcctccaa caccaatcat cccagacgat catccactct ggatgtcatc caaatggctt 540
tccatgaatg tcttaatgct agatgaaaaa cgtgttatgg tggatgccaa tgaagttcca 600
attcaaaaaga tgtttgaaaa gctgggtatc actaccatta aagttaacat tcgtaatgcc 660
aattccctgg gaggaggctt ccattgctgg acctgcgatg tccggcgccg aggcacccta 720
cagtcctact tggactgaac aggcctgatg gagcttgtgg ctggcctcag atacaccta 780
gaagcttagg ggcaaggctt attctcctgc tttaaaaagt gcatgaactg tagtgcttta 840
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ttctaaagga gagaaagact tagaacatac acagatccta agtagaacca ggtaattgtc 1260
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gactatgcaa aacatcarag tgaattttcc atgaatgttt ttaattttct catctcaaca 1380
ttgtgatata tgctactaaa aaccttttca tatacatctt acctcatttc aagtgaatta 1440
ttttaatctt tctctctctt tccaaaaatt tacaggaatg tttagtgtaa ttggatttcg 1500
ctatcagttc ccacctctaa gttttgatat tcaatatctg atagatacac tgcattcttg 1560
gtcatctaag atttgtttac aaatgtgcaa attattttag gcatagactt tataagcatt 1620
aaaaaaaaact aatggaggta aaacctaaat gcgatgtgaa ataatttttag tgttgatact 1680
gtatgtgtat ttttattcta ataaactttt gtgttccaga ttgaaaaaaa aaaaaagggt 1740
cggccgctct agaggatccc ncganggggc ccaagcttaa cgcgggcatg cgacgtcaaa 1800
gctctctccc caaagtgnag tcgtattata agccagggca cgggccc 1847

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<210> 161

<211> 370

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (363)

<223> n equals a,t,g, or c

<400> 161

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gatgaggact ctgactatga ccaacgggtg gcgctctgag ctgctaattg agtcagccgt 120
aaatctgtga aatgacctgt tctttgcaac tgtatttatc aagaaagtca agcgtcctgt 180
aaaattttaga gcatcttgga ggtgggagga agtatccctc ttaccttgac ccctactttt 240
ttttatcttc tttacatttc cagtggaaac cccactttta ttttagaata agaaaattaa 300
gctgagaaca tgagtctgtg ctcttggtat aggggcacct agagtctgtg atccaaagcc 360
ggnattttcc 370

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<210> 162

<211> 454

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (183)

<223> n equals a,t,g, or c

<400> 162

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gktagtccct ccttcacgct tgggtcctca ctggattcca atgacagtag cttgccctac 120
ggcttactgc tactgttcaa ctctggacat cttgttctcc ttcgctgaat ccctttacaa 180
cgnccacaac tttagtgcc ttcattaaaa tgccttcatt tgcactttca gagtagaatc 240
ctgtttcctt ctgaagccct tcctaattga tatacttagg gccatcttcc ttaacamccc 300
agacctgtg gtttcggagc catcgaccts ctcatttcca ccgcagargg stggrrgaga 360
ttcagaaaaat cagggcaggg cccaggagaa agttctttca gagcatggct tcagcctggt 420
tactttctgac accagccagg aagaacagac ttct 454
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<210> 163

<211> 1096

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (144)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (182)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1091)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1096)

<223> n equals a,t,g, or c

<400> 163

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ggagagagag agagagagag agctgggttt ccatccatcc cagtcggcaa gagccccatg 60
gtggagcagg ctgtgcagac tggttctgct gacaacctga atgctaataa gctgttacct 120
ggcaaggagg ccacaggagc gcanctcaac ggtcgtcagg cccagccgag cagcaagacg 180
gncagcgatg tagtccagcc ggcagctgtg caagctcaag ggcaggtgaa tgacgagaac 240
agaagacctc agaggaggcg atcaggaaac aggcgaacaa ggaatcgctc cagagggcaa 300
aaccgtycaa ctaacgttaa ggaaaacaca atcaaatttg aggggtgactt tgatttcgag 360
agtgc aaatg cccagttcaa ccgagaggag cttgacaaag aatttaagaa gaaactgaat 420
tttaaagatg acaaggctga saagggggaa gagaaggacc tggctgtggt gaccagagat 480
gccgaagcgc ccgtgagga agaccttctg gggcccaact gctactatga caaatccaag 540
tcgttcttcg acaacatctc ttctgaactc aagaccagct ccaggcggac gacgtgggcc 600
gaagagagga agctcaacac agagaccttt ggggtgtcag ggaggtttct tcgtggccgc 660
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agttctcggg gcggtattccg aggaggcagg ggcaatggga ccacccgtcg caacccccact 720
tcccacaggg ccgggactgg caggggtgtga ggggtgcagcc aaaggctcct actgaagtgg 780
cgcataactg acgstgtgtg tktcaggacg cgaggaaaac gctgcactta cagggagagg 840
tggtcacttt gtttacggag tttggaagag acccatactg ctacttgtgt tttggactta 900
actgaacttg gacatggctg aagttagaac cacttgtttt ggggaagtat tcatgggtaa 960
cctctttgag gtctctttat ctgtgtttcc tttttagttg cgcatagcct aattctaagg 1020
ttttggtatt ttgcaaaaag gtttctatag tgaaagctga atccttactt tgtgactttt 1080
tttttttttt naaggn 1096
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<210> 164

<211> 2023

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2005)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2016)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2019)

<223> n equals a,t,g, or c

<400> 164

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gggtttgatt cagtattaac agatcttgac tacactaatt ctttatatta tagaaccaac 1260
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```

ggaaatatgg gcactatttt gaattctaga gatggttttt gttaaatcta ctaataaact 1320
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ttaactgaca gtatgcccac ttgtttttat ggctttctta tctaaactgc actgatgaac 1440
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cagaataaac gggctgttct tgaagaagca aaaccagaat atgcattact ttggtttaat 1620
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ttttattcat gcctgtgtgt ttttcttaag tatgaattct agatacagct acttatggat 1920
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```

<210> 165

<211> 1320

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1158)

<223> n equals a,t,g, or c

<400> 165

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ttcaatggat cccaggggta tcttgaaggc atttcccaag cggcagaaaa ttcagctga 120
tgcatcatca aaagtacttg caaagattcc taggagggaa gagggagaaag aagcagaagg 180
aggcctgcag tatccctggg attgggaakc ggatggctga saaaatcata gagatcctgg 240
agagcgggca ttgcggaag ctggaccata tcagtgaag cgtgcctgtm ttggagctct 300
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gaagtctgga agacatccgc agccaggcct ccctgacaac ccagcaggcc atcggctgaa 420
gcattacagt gacttcctgg aacgtatgcc caggagggag gctacagaga ttgagcagac 480
agtccagaaa gcagcccagg cctttaactc cgggctgctg tgtgtggcat gtggttcata 540
ccgacgggga aaggcgacct gtggtgatgt cgacgtgctc atcactcacc cagatggcyg 600
gtcccaccgg gktatcttca gccgcctcct tgacagtctt cggcaggaag ggttcctcac 660
agatgacttg gtgagccaag aggagaatgg tcagcaacag aagtacttgg ggggtgtgccg 720
gctcccaggg ccagggcggc ggcaccggcg cctggacatc atcgtggtgc cctatagcga 780
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<210> 166

<211> 1205

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1027)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1200)

<223> n equals a,t,g, or c

<400> 166

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cttggggcgt cctcagcctc actgtgacct ttctgccaga gctcccagcc aggcctactc 120
tgctgaggtg gcgcttcctg ctaaggggccc ttctctgccc ttctctgccc ccttcccata 180
ccacatgctg agccgccaca aagaccaaag aagtgatggc tttctctgtg cccctgctgc 240
tctgagggga gaggggtggg tctcctgagc cactcagatg ggaaagtccc ttactcggcc 300
cctccctccc cagcagcccc aagctttaca ctggatgcag cgatcaaccc accactcacc 360
aggectctcc tcccctctgc ccccggtctt tagctccagc tgctccaggt agttgggtca 420
tccttccccc tctctccctc cctgcttccc cttcagtgtc tacttggtgc cagccctcca 480
gctgcagccc ctggggaaaa gcagcctccc ttctctctc cctccactcc ctgctccct 540
ccctcagccc ctgtctctgc caggtgcctc ctctcagtca ggcttcagag cagccctgga 600
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ctcga 1205
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<210> 167

<211> 1413

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1376)

<223> n equals a,t,g, or c

<400> 167

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gggatggcgt gtgggtctcc attcgcttgg attctacgct ccgtctctat catgcacaca 60
cttatcaaca tctacaggat gtggacattg agccttatgt aagcaaaatg ttaggtactg 120
gaaaactggg cttctctttt gtgagaatta cagctcttat ggtgtcttgt aatcgtttgt 180
gggtggggac aggaaatggg gtcattatct ccatccatt gacagaaacc gtaatcctcc 240
accagggacg ttactgggg ctgagggcaa ataaacctc aggtgtacca ggaaatcgtc 300
```

```

ctggaagtgt aatccgtgta tatggtgatg aaaacagtga taaagtgact ccagggacat 360
ttataacccta ttgttcaatg gcacatgcac agctttgctt ccatgggcac cgggatgctg 420
tgaaattctt tgtggcagtc ccaggtcaag tcatcagccc acaaagtagc agtagtggca 480
cggatctgac gggtgacaaa gcagggccat ctgcacagga gcctggtagt cagacgccct 540
tgaagtctat gcttgtcatc agtggaggag agggctacat cgacttccga atgggtgatg 600
aaggtggaga atcagaactt cttggagagg atcttccact tgaaccttct gtcaccaaag 660
cagaaaggag tcacttgata gtgtggcaag tgatgtatgg caatgagtga gcccattgga 720
aacagggtgga gatggggaag ccgtctcttc tgcattggtt attttccctc tatcctttta 780
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gggggggggc ccgggaccca ttgggccctt tgg                                     1413

```

<210> 168

<211> 1228

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1178)

<223> n equals a,t,g, or c

<400> 168

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aattcggcac gagctttcca agttgtagtg ttgtgtttt cagcctgctg ctgctgctgc 60
tgttgcggct aggggaaccg tcgtggggaa ggatgggtgt cgaaaaatgt gaaaagaaac 120
ttgggtactgt tatcactcca gatacatgga aagatgggtgc taggaatacc acagaaagtg 180
gtggaagaaa gctgaatgaa aataaagctt tgacttcaaa aaaagcaaga tttgatccat 240
atggaaagaa taagttctcc acttgtagaa tttgtaaaag ttctgtgcac caaccagggt 300
ctcattactg ccagggtgtg gcctacaaaa aaggcatctg tgcgatgtgt ggaaaaaagg 360
ttttggatac caaaaactac aagcaaacat ctgtctagat gtattgatgg aatttctggc 420
tttctaaatg attttacttt ctgccttgaa ttttcaaggc atagatgtca acttacagaa 480
taacatgttt taagataatt aagtttaaac cagagaattt gattgttact cathttgtct 540
tcatgttcta aacagcaaca gtgtaactag tcttttgktg taaatggtta ttttccttat 600
aagaatttta agaactaagt ggcaaatcc atgaaaaat ttcycrgttc tgkatgcact 660
tttatttaac attattcata taattctccc cccaccactt tatttataga tactgcaaaa 720
gtgagaagga gataatagat actttgctct gaatttggca tccagagtta acatttctcc 780
cctcactccc ttgctggtgt catagttatt agaatcagca gcctcttaac taattgcggt 840
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acattgaatt ttagaaaaac atattacttt gaattcaaat tgtcatgaaa accagaacag 1080
tgtttgctca tgttgcatgt aatgaaaata aatccctgct ctgagaaaag ctctttgaag 1140
caaaaaccaa actttttttt ttttttttta cctcctgnct tgccccctaa aagaaatmma 1200

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tagagcaaac atcttgactc tccctttt

1228

<210> 169

<211> 1925

<212> DNA

<213> Homo sapiens

<400> 169

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aaaagttgat aatacatacc catgataaga attcatattt tctctttctt tgtctcttca 180
tacagaagca agttcgagca gagaagggtta gcagttacag cacttaaaag tttaggattg 240
agggtttttg gttgggtttt ttgttttttt gttttttcca ttttctactg ttgctgaaca 300
ttgatttagt cttccaaaat ggacatcact agtaagtga ctgaatactg aaataygctg 360
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tactaaggag atgtaatat ttctttgacc tgtaggaat ataacttgtg tcttgatttg 1860
ttgcacatca tattttttgc aacattaatg aatttaata aattaattgg aacctgtgc 1920
cgaat 1925

<210> 170

<211> 1558

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1535)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1536)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1537)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1551)

<223> n equals a,t,g, or c

<400> 170

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gcctgtgagc aaacgaggcc cctgagagct ccacctagtt cacaggataa aatcccacag 120
cagaactcgg agtcagcaat ggctaagccc cagggtggtt tagctcctgt attaatgtct 180
aagctgtctg tgaatgcccc tgaattttac ccttcagggtt attcttccag ttacacagaa 240
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aatcatctta cagagcagcc tggcagtttt gaaactgaaa ttgaacagtt tgcagagacc 360
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caggccacat ctatcccaaa tttctcttat atgggagctc gcctgtgtaa ttacctgtcc 480
catcatctga caattagccc acagagtggc aacttccgcc aattgctact tcaaatgtgt 540
cggactgaat atgaagttaa agatcaagct gcaaaagggg atgaagttaac tcgaaaacga 600
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<210> 171

<211> 1402

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1370)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1400)

<223> n equals a,t,g, or c

<400> 171

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ccagctgcag cacaatgaga tcatccccag tgrggccatg gccaagctcc ggcagaaaaa 120
tccccgggca gtgcggcagg cggaggaggt tcggggtctg gagcatctgc acatggatgt 180
cgctgtcaac ttcagccagg gggccctgct gagcccccat ctccacaacg tgtgtgccga 240
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catccgcagc tgccagaaga gctacagctt cgacttctac gtgccccaga ggcagctgtg 540
tctctgggat gaggatccct acccaggcta ggggtgggagc aacctggcgg gtggctgtc 600
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aaaaaaaaaa aaaggggggn cg                                     1402
```

<210> 172

<211> 490

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (469)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (489)

<223> n equals a,t,g, or c

<400> 172

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```

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gaattgctcg aactcagggg gtggaggttg cagtgaagttg agattgtgcc attgcactcc 120
agcctgggca acagagcaag actctgtctc aggaaaaaaaa aaaaaaaaaa aagaaaagca 180
acatagtggtg gtttctcaat ctgtcctcgg ctgcccttct catttggtga tgggaccttg 240
aaagcaagct tgctaggtgc cctctgtggc tccagccttt accggaagtg tgggtgcatgt 300
ttttaacttc aggggaagcgg tatcctgtca ctgggggtatg ggaatgagca tggagaarar 360
agcaccacagc cacgaattcc cttccctaag catctcctgt tcctgactgc tccatgaatt 420
gaaaaaaaaact gacccttgtt ttttaaaaaa aaaaaaaaaa aaaaaggng gccccctaaa 480
gaattccanc 490

```

<210> 173

<211> 1437

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (198)

<223> n equals a,t,g, or c

<400> 173

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<210> 174

<211> 1815

<212> DNA

<213> Homo sapiens

<400> 174

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<210> 175

<211> 971

<212> DNA

<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (961)

<223> n equals a,t,g, or c

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<222> (965)

<223> n equals a,t,g, or c

<400> 175

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<210> 176

<211> 1622

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1394)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1444)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (1606)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (1613)

<223> n equals a,t,g, or c

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<221> misc feature
<222> (1618)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1622)
<223> n equals a,t,g, or c

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tn 1622

<210> 177
<211> 340
<212> DNA
<213> Homo sapiens

<400> 177
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<210> 178
 <211> 616
 <212> DNA
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

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 <222> (610)
 <223> n equals a,t,g, or c

<220>
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 <222> (613)
 <223> n equals a,t,g, or c

<220>
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 <222> (615)
 <223> n equals a,t,g, or c

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 tgcngtgaan gcncnc 616

<210> 179
 <211> 2067
 <212> DNA
 <213> Homo sapiens

<400> 179
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<210> 180

<211> 1827

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1524)

<223> n equals a,t,g, or c

<400> 180

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<210> 181

<211> 2026

<212> DNA

<213> Homo sapiens

<400> 181

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tgctgttttt attatacatc agtttctttg tataacttgt gagttccatg tgttttgttt 1920
ttattatgta aatatcatta taaataaact tatttataaa tcaaaaaaaaa aaaaaaaaaa 1980
ctcgaggggg gcccgggtacc caattcgccg gatagtgatc gtaaac 2026

```

<210> 182

<211> 456

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (419)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (450)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (453)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (455)

<223> n equals a,t,g, or c

<400> 182

```

tggtactaaa catatccatt cacccttagt ttatgtgcca accttatttt atattacatt 60
cccaaattat atatagctct gtttctaagc tctattctgc tctattggac tattgtctgt 120
tcttatgcta atcctacctt attttaatgt ctgtgacttt agtcatagga cataccttga 180
agaataggaa ctcccttact gtttaaacag ttcatttggc tatatgtgga attttattct 240
ttctatataa actttaaggt ttgtttatag agttccttaa aaatttgaty ggaattgtat 300
aaattaatag ggagaaagtt gatatcttta tgatatttgt tccatccaag agcatggaat 360
gtctgtattt taaattatca tctatattgg ttattaggtc ttacatattc atgattagnt 420
cctaggttct ttataggatt agggttttgn tgntng 456

```

<210> 183

<211> 481

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (463)

<223> n equals a,t,g, or c

<400> 183

```
ttnttttctc ccagacagtg tccgccgtgt gcctgcccag cgccgacgac gacttccccg 60
cggggacact gtgtgccacc acaggytggg gcaagaccaa gtacaacgcc aacaagaccc 120
ctgacaagyt gcagcaggca gccctgcccc tcctgtccaa tgccgaatgc aagaagtcc 180
ggggcaggag gatcaccgac gtgatgatct gtgccggggc cagtggcgtc tcctcctgca 240
tgggcgactc tggcgggccc ctggtctgcc aaaaggatgg agcctggacc ctggtgggca 300
ttgtgtcctg gggcagcgac acctgctcca cctccagccc tggcgtgtac gcccggtgca 360
ccaagctcat accttgggtg cagaagatcc tggctgccaa ctgagcccgc ggctccctcc 420
gacctgtctc cccacagagc ctcagtaaac ccatggaaca canaaaaaaaa aaaaaaaaaa 480
a                                                                                     481
```

<210> 184

<211> 496

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (60)

<223> n equals a,t,g, or c

<400> 184

```
tggggatacc accaggtgag gaccactctg gaaactggtg gatcccccg gactgacagn 60
aatteggaca gaagacctc tggctcctct cctgcttctc ccttgtgggg gccgcctttg 120
gctgcggggg ccccgccatc caccctgtgc tcagcggcct gtccaggatc gtraatgggg 180
aggacgccgt ccccggtctc tggccctggc aggtgtccct gcaggacaaa accggcttcc 240
acttctgcgg gggctccctc atcagcgagg actgggtggg caccgctgcc cactgcgggg 300
tcaggacctc cgacgtggtc gtggctgggg agtttracca gggctctgac gaggagaaca 360
tccaggctct gaagatcgcc aaggtcttca agaaccctaa gttcagcatt ctgaccgtga 420
acaatgacat camcctgctg aagstggcca camctgcccc sttytyccag acagtgtccg 480
ccgwtgcct gccag                                                                                     496
```

<210> 185

<211> 1307

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (383)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1271)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1275)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1279)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1294)

<223> n equals a,t,g, or c

<400> 185

gtcngantcc cgggtcgacc cacgcgtccg ccggaagaag aggaactggg cctgaaaggt 60
accggtgacc gctactgctg ccggtgtttg cgtgtggcag ggagccaggc ctggcgagcg 120
gggtgtgtcg cgatgccgga gctggcagtg cagaaggtgg tgggccaccc cctggtgctg 180
ctcagtggtg tggatcattt caaccgaatc ggcaaggttg gaaaccagaa gcgtgttgtt 240
ggtgtgcttt tggggtcatg gcaaaagaaa gtacttgatg tatcgaaacag ttttgcatc 300
ctttgatgaa gatgacaaaag acgattctgt atggttttta gaccatgatt atttgaaaa 360
catgtatgga atgtttaaga aantcaatgc cagggaaaga atagttggct ggtaccacac 420
aggccctaaa ctacacaaga atgacattgc catcaacgaa ctcatgaaaa gatactgtcc 480
taattccgta ttggtcatca ttgatgtgaa gccgaaggac ctagggtctg ctacagaagc 540
gtacatttca gtggaagaag tccatgatga tggaactcca acctcgaaaa catttgaaca 600
cgtgaccagt gaaattggag cagaggaagc tgaggaagtt ggagttgaac acttggtacg 660
agatatcaaa gacacgacgg tgggcactct gtcccagcgg atcacaaacc aggtccatgg 720
tttgaaggga ctgaactcca agcttctgga tatcaggagc tacctggaaa aagtcgccac 780


```

aggcaagctg cccatcaacc accagatcat ctaccagctg caggacgtct tcaacctgct 840
gccagatgtc agcctgcagg agttcgtcaa ggccttttac ctgaagacca atgaccagat 900
ggtggtagtg tacttggcct cgctgatccg ttccgtggtc gccctgcaca acctcatcaa 960
caacaagatt gccaacccggg atgcagagaa gaaagaaggg caggagaaaag aagagagcaa 1020
aaaggatagg aaagaggaca aggagaaaga taaagataag gaaaagagtg atgtaaagaa 1080
agaggagaaa aaggagaaaa agtaaaacat gtattaaata gcttttttaa tttgtaaatt 1140
aaaatcttac aaactaaatc agtgtgctgc tagagggttc tttttcactt gacatgctta 1200
ttagaaagct gacccamcaa gagctctctg cctccgggtca ctcttgctgt ggtgctacgt 1260
ggaagtgaat ngrgnctgnt ctcaaatctg actncagttt cgtctgt 1307

```

<210> 186

<211> 449

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (402)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (437)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (440)

<223> n equals a,t,g, or c

<400> 186

```

gcggacgcgt gggcttctgt actgccaggt ccgggtcggc ggctgcactg cggatgagac 60
cgggtgcgact catgaagggtg ttctgcaccc gcagataccc gccgaggctg tgagggtggag 120
cagtgggact cggatgagcc catccctgcc aaggagctag agcgagggtg ggcgggggcc 180
cacggcctgc tctgctcct ctccgaccac gtggacaaga ggatcctgga tgctgcaggg 240
gccaatctca aagtcacag caccatgtct gtgggcatcg accacttggc tttggatgaa 300
atcaagaagc gtgggatccg agttggctac amcccagatg tcctgacaga tamcamcgcc 360
gaactcgag tctccctgct amttamcamc tgccgccggt tnccggaggc atccgaggaa 420
gtgaagaatg gtggctngan ctctggaa 449

```

<210> 187

<211> 951

<212> DNA

<213> Homo sapiens

<400> 187

```

actataggga aagctggtac gcctgcaggt accgggtccgg aattcccggg tcgaccacg 60
cgtccgcagc aatccggttg ttctcggtta gactgggtcg gggccagggg agaagcagtc 120
accctgtgt agagggtcc cgctgtgctt ctgagcagtt gctttgttca gaagtgttag 180
gagggtcaga ttgtgccata attgttatta aagagaaaac acgcccacct tcctttctcc 240
cctgctggcc attgttcatt gagttttact gagggcagcc tttgtggaag tcagggaggt 300

```

```

tgccaaaggc ctgtagatgc ctcttgacaa ggtcttgatt cctgggttttc tagcaccat 360
ttgcattttg gtcttcagca caaagccttg ttccctgtgg ccggacttct gggcaataag 420
actggggagt gactgttgag cagtctgctg tcaggagaga tggctgaaaa ggtgatcatc 480
ttggtgctaa acaagtaaga ggcaactgcc ctgtttttgt ttgttttgag gcacaatgaa 540
actttagcca aactctgcaa gaggggtcca tctcctgcca tggccagggtg tgagagacca 600
aaccgagaaa acagcatact ctatcactta agccttggggt agaatgggaa ttctttaccc 660
tgggtaaacg ttttaacaaa aaaatggaac ttaacttcgg tttggactgt ggtcgtgctg 720
aggcaggagt ggggttgccc tcttggggct gaatctccag gcctcacgag gtccctgtgg 780
ggatgctgct atttctaaga tgcaaattgc acatttccta gattttgtat ctgtggattt 840
ggataaggga ggggaacacg gacaaattgc ttgtacaatt tgaaatgggc ctcaatggta 900
cttcaaacct tttgattatt cctaaataaa aacataaata taaaaaaaaa a 951

```

<210> 188

<211> 381

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (293)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (350)

<223> n equals a,t,g, or c

<400> 188

```

ggcacgagca gctccgcgcc gcgcggaacc caccgagccc gcgctcagac gccccagctc 60
cgctgacagg ccgctcgcgc cgggtccttc ctcttcycca rgtgcaggca gagccccrg 120
agmcertggc agcccttccs gcagctcyga agccactggc aagccccgag gcagggatgg 180
csggcccagg agggaggagg asgacgtcyc tcccgaagar aagaggctgc ggctcttgct 240
ggagrsgggg agcgcacagc ccsaggactg cgaggacggg gaggacgcgc cngggccggg 300
caggwgwgw accggcaccc agacagggtg cgacggcaga ggagtaagtn acgcgggcgc 360
gggggtccgg ggggtgccggg t 381

```

<210> 189

<211> 1309

<212> DNA

<213> Homo sapiens

<400> 189

```

gggcgggctg cagtgttaat gggaggggta actggggact cgagctcagt gatgacgcga 60
ctctcacgtg accaggagtc gacgtgtgca gaagtcctta tagtccaggg cctgtttccc 120
tgtagcagct cttatttgct ggagaaggag aaaagtcccc aagatccttt caggatattt 180
ggttttttg ggcgcacaca aatcgagggtg agggaagaga gaggaaaatc ccctgaatcc 240
ctgcaggatt aatttattca aaaaggaaat aaaaaatact caatatgcaa aagtcttggtg 300
aagaaaaatga gggaaaacca cagaacatgc caaaggccga ggaagatcgc cctttggagg 360
atgtaccaca ggaggcagaa ggaaatcctc aaccttcga agaaggcgta agcagggag 420
cagaagggaaa ccccgagga gggccgaatc agcctggcca gggatttaaa gaggacacac 480
ccgttaggca tttggaccct gaagaaatga taaggaggat agatgagctt gaaaggctta 540

```

```
gggaagagat aagaagagta agaaacaagt ttgtgatgat gcattggaag caaagacatt 600
cacgcagccg tccttatcct gtgtgcttta ggccctgaat tcatttttgc ctaatattaa 660
aatctggccc cagctttctt tctgttagca ttttctgatg tatctttgac ctccatttta 720
cttttaataca tctgatgaaa tttkgtttta ggtaatttcc ttggtaccag catctcattg 780
gatttttggat ttgacccat tttccaggtc tatttttcaa ttggaactt tcacacattt 840
gcatgggaat atgttcattc catgttgtaa agtaaaacat aacagggtat ggcaaagcag 900
catatttaat atcagctcac atatgtagga taaaattcca aactttgtgt gtgtgcgtgt 960
gtgtatacat acatccatat aacatatatc acaaacttaa ccaagcttat ttctgtgtgg 1020
tgtgaaattt tatttgtttt cttctttttg ttctttttgc ttatatgtac tttttaatga 1080
acacgtgtct cacacacaaa aagaattaag gatttttttt acaagtaaga gtcaaataat 1140
ttgcaaccag cttatgaggg caatgggggc acctaaactc ttgatgaaag aactttaaaa 1200
agaaatgtaa acctcaaatt acctctggat ctcttagcca gaggaataaa ctggcaatta 1260
ttacagataa aaaaaaaaaa aaaaaactcg tgccgaattc ggcacgagc 1309
```

<210> 190

<211> 1899

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (776)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1026)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1887)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1895)

<223> n equals a,t,g, or c

<400> 190

```
gcgaggcgac cgctgaggcc gcggagagtg acggcgcccc ggccgacgga gccggggcg 60
ggcggcggct cagcgaagga gcgcgcgggc ggtctgcccc cgccccctcc ccgccccct 120
tcccggtgac cttcagggcc cgggtggcgg gcgcaggccc ctgcggcggc gccgggatgt 180
tcgtgcagga ggagaagatc ttcgcgggca aggtgctgcg gctgcacatc tgcgcgtccg 240
acggcgccga gtggctggag gaggccaccg aggacacctc ggtggagaag ctcaaggagc 300
gctgcctcaa gcaactgtgt catgggagct tagaagatcc caaaagtata acccatcata 360
aattaatcca cgctgcctca gagaggggtc tgagtgatgc caggaccatc ctggaagaga 420
acatccagga ccaagatgtc ctattattga taaaaaagcg tgctccatca ccacttccca 480
agatggctga tgtctcagca gaagaaaaga aaaaaacaaga ccagaaagct ccagataaag 540
aggccatact gcgggcccacc gcmaacctgc cctcctacaa catggaccgg gccgcggtcc 600
agaccaacat gagagacttc cagacagaac tccggaagat actggtgtct ctcatcgagg 660
```

```

tggcgagaa gctgttagcg ctgaaccag atgcggtgga attgtttaag aaggcgaatg 720
caatgctgga cgaggacgag gatgagcgtg tggacgaggc tggcctgcgg cagctncacg 780
gagatgggct ttccggagaa cagagccacc aaggcccttc agctgaacca catgtcgggtg 840
cctcaggcca tggagtggct aattgaacac gcagaagacc cgaccataga cagcctctt 900
cctggccaag cccccccaga ggccgagggg gccacagcag ctgcctccga ggctgccgcg 960
ggagccagcg ccaccgatga ggaggccaga gatgagctga cggaaatctt caagaagatc 1020
cggagnaaaa gggagtttcg ggctgatgct cgggcccgtca tttccctgat ggagatgggg 1080
ttcgacgaga aagaggtgat agatgccctc agagtgaaca acaaccagca gaatgccgcg 1140
tgcgagtggc tgcgtgggga ccggaagccc tctccggagg agctggacaa gggcatcgac 1200
cccgacagtc ctctctttca ggccatcctg gataacccgg tgggtgcagct gggcctgacc 1260
aaccgaaaaa cattgctagc atttgaagac atgctggaga acccactgaa cagcaccag 1320
tggatgaatg atccagaaac ggggcctgtc atgctgcaga tctctagaat cttccagaca 1380
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gcggcccagc accgggcaga gtggacctca cctggaaact caccttcagc gcctcagccc 1500
tggactgtta gaggtgctgc agckgctcct gctctctgat cttattgctt ataaactttg 1560
gtgacggtag tgtgtaaggc cgtattttta gcatctgaca ggtgtttaca aaaaagtgg 1620
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gctgcttgaa ttgccgtgta gacatttgct tggagagtcc acttggtatt tgacggaggt 1740
aggtttcaac ccagagttaa tgtcaagcat gctaatttaa ctagtactc acagtgact 1800
tttctttaat aaagtccctt ttcctaaaaa aaaaaaaaaa aaaaaaaaaa 1860
aaaaaaaaa aaaaaaaaaa aaaaaanggg ggggncccc 1899

```

<210> 191

<211> 2490

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2484)

<223> n equals a,t,g, or c

<400> 191

```

tcgaccacg cgtccgtcca rgtgaagggr gaaaaaaaaa gcctatactt tggcaggtta 60
tgaactttga atgtgatgaa atgacacgtt tggctgcatt tggatgggtgt cttagaaccc 120
tcattgtctc gacctgaagg ctacttctag gagcatgaag tttgagtttt gtgtttttcc 180
aaaggatact tccttggccc tttttcttta ttgactagac caccagagga ggatgtgtgg 240
gattgtaggc aaaccacac gtggcatcac tgaaaataaa tttgatcata cctaagaggt 300
taggaaatgg tgccattccc accttagagt gctacatagg tgctttgggc gtatgtaaca 360
ttagtgctct tccttgaagc cacaagctag tttcttagt tttaaaatcc tgttgatga 420
atggcatttg tatattaaaa cactttttta aaggacagtt gaaaagggca agaggaaacc 480
agggcagttc tagaggagtg ctgggtgactg gatagcagtt ttaagtggcg ttcacctagt 540
caacacgacc gcgtgtgttg cccctgccct gggtccccg ccatgacatc ttcacctg 600
agcttggtgt gagactgacc caagtgcagc tagcactggg acacagatcc ttgtcttcag 660
caccttccaa ggagccaact tttattccct ttcctctctc cctccccac ctcgtctctt 720
cccaatttag taacttagat gcttccagca catacgtagg tagctacccc agccggtttg 780
gattacaggc ctgtgctgga acatcatctc agttgkccac cttcctggca ggctgtagac 840
ctgacatttt gagacaagcc tagagtcagg agcagggact ttgactctta ggaagagcac 900
acatgagggc aaggctgctg gcagacgtct ccattgtcct tatgtgtct gtgtgtatt 960
ttttttttt tattgacctt ggtgattatt tttttaaac atcgtaata tactgaaagt 1020
agctatagca catatcatgt syttagtgtt tttatttttc tccatctccc cttggcttcc 1080

```

```

tagagtttg acatattcca ggctaaatgc ttttactcaa gactacagaa aggtttgaag 1140
tagtgtgtgc atggcatgca cgtatgtaag taatctgggg aagaagcaaa gatctgtttc 1200
attcttagcc tcaggcctca tgagggtctc cacagggccg gagctcaggt tacaccactc 1260
cttcgtccct acaggagatg tagggagaag aatctgcagg ctgcttgtrg gactgttcac 1320
caagggggat accagcagca agagagtgc cccgtttagc cctggaccct gtttcttact 1380
gtgtgacttg gctagagttg ggagttcccc caaaataaac gtgtcccat tttaccagaa 1440
ccaaacctca acacagcgaa gttactgtc tttgtgtggc aaagatgttc cttgttaggc 1500
ccctttcagg taaccgtctt cacaatgtat tttcatcaca gtttaaggag catcagccgc 1560
ttctcaagtg ggtagggaaa gcagaaaaac gtacgcaaga ggacatggat ccaaatgat 1620
gatgaagcat ctcccatggg gaggtgatgg tggggagatg atgggctaaa caggcaactt 1680
ttcaaaaaca cagctatcat agaaaagaaa cttgcctcat gtaaaactga ttgagaaatt 1740
ctcagtgatt ctgcaatgga ttttttttta atgcagaagt aatgtatact ctagtattct 1800
ggtgttttta tatattatgta ataatttctt aaaaccattc agacagataa ctatttaatt 1860
ttttttaaga aagttggaaa ggtctctcct cccaaggaca gtggctggaa gagttggggc 1920
acagccagtt ctgaatggtg gtggagggtg tagtggcttt ttggctcagc atccagaaac 1980
accaaaccag cctggctaaa caagtggccg cgtgtaaaaa cagacagctc tgagtcaaat 2040
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attacagaga gatggagcca tctatccaag aagccttcac tcaccttcac tgctgctgtt 2160
gcaactcggc tgttctggac tctgatgtgt gtggagggat ggggaataga acattgactg 2220
tgttgattac cttactatt cggccagcct gaccttttaa taactttgta aaaagcatgt 2280
atgtatttat agtgttttag atttttctaa cttttatata ttaaaagcag agcacctgtt 2340
taagcattgt acccctattg ttaaagattt gtgtcctctc attccctctc ttcctcttgt 2400
aagtgccctt ctaataaact tttcatggaa aakctcctgt gccaggaaaa aaaaaaaaaa 2460
aaaatctcgg gggggggccc ggtncaccatt
2490

```

<210> 192

<211> 1808

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1228)

<223> n equals a,t,g, or c

<400> 192

```

ggcacgagaa tgaactgggt tgcatttctt tttaaagagat gatagaggaa aatatagttt 60
tttgtaagaa tgtttatctc tcttaaaaga taatctttta attttcttca gataacaagt 120
tattattatt ttttaagaaa gcaagtttca ccgtgcccg ccaaagtcag ctttcaaat 180
ccaagccata attggtgagg ggggagtttc agaattacat agaaaaatta atatttgaaa 240
aaataattct gaaatttcga atttaaaaac agatgtgctg cttctgggtg taggtagtaa 300
aagtatagga aaagaactgt ttccttagaa gcggactgtg gaagggtat gtagaatgtc 360
aaagggcaac aagagcctgt gtttttaatg tcatcctgta ctcggcacaa atcaaaggcc 420
aatacaagtc tgaaaagcag aaataaatat tttccagggt ttttgcttgg gcacatacta 480
actgcttttg gcattctaata ctggtctcca aacaccaaag acccatttcg agcctgctat 540
tagcctgctg ctgactctat cacttgagac aataatgtgg ggttatggtg gtggaatctt 600
gtatattttt gtcaaaaata aaaccttgag ttaaggggat agatatagat ggaaaaatac 660
acaaataaat acggtatgaa aacacatgga aatgtgtctt tgtcaaata gaatcattat 720
taccatcaca aaaattcttc tcttgccaa tatctcattt ccctatatag tatacaagca 780
ccatttcttc tcaattttta agaagagaaa ttagtccatt accacagggg ttcttgtcac 840
tactaattat acaacaatct tttccaaca aaaagatgtc ctccacaacc tttgttttca 900

```

```

aagcagacag catctatgtg gccaaatata ctttgggttg ttcttgagga tactggtttt 960
gggctgatga ctatgggtggg cagcatggat ccattgggct ccttctgcta aacagccaca 1020
ttgaaatggt ttaaaagcaa gtcagatcag gtgatttgta aaattgtatt tatctgtaca 1080
tgtatgggct tttaattccc accaagaaag agagaaatta tctttttagt taaaaccaa 1140
tttcactttt caaaatatct tccaacttat ttattgggtg tcaactcaatt gcctatata 1200
atatatatat gtgtgtgtgt gtgtgtgngc gcgtgacgtg tgtgtatgcg tgcgcatgtg 1260
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aatttaaaaa agagttttta ataattatct atgtgcctgt atttcccttt tgagtgtctg 1440
acaacatggt aacatattag tgtaaaagca gatgaaacaa ccacgtgttc taaagtctag 1500
ggattgtgct ataatcccta tttagttcaa aattaaccag aattcttcca tgtgaaatgg 1560
accaaactca tattattgtt atgtaaatac agagttttta tgcagtatga catcccacag 1620
gggaaaagaa tgtctgtagt ggggtgactgt tatcaaata tttatagaat acaatgaacg 1680
gtgaacagac tggtaacttg tttgagttcc catgacagat ttgagacttg tcaatagcaa 1740
atcatttttg tatttaaaatt tttgtactga tttgaaaaac atcattaaat atctttaaaa 1800
gtagaaca 1808

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<210> 193

<211> 1073

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1028)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1069)

<223> n equals a,t,g, or c

<400> 193

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gcttacctaa aagagctagg gtacatctga attttttagac ttgactgctt ttctgaatgg 60
cattttgtaa acttcattta aatttcaaaa atctttttga gctttttcaa atgatagggt 120
tttaaaaata tttttctatg tgatgttctg ttcttcaaaa aacaaataca ttaaaaacta 180
ttattgtggg accatattgg cctggaaaaa aaaatctttc ttaattgagc ataaacagga 240
ataaagatta attcaaaaata gtttttcctc cttcttttgg aatgtggcat ccccatcaca 300
gttaakgatg taagtttttc aaaactgagt cagggactag tttatcccac aatgcgacaa 360
tgtgggcagg gtaattgtag gttgggctca gttttcttgc cagagttcta atgctgtttg 420
tgtacttacc tctaagtgga ataatttagg tacctataaa gtaagggtc aataacaata 480
accttaatga tggctaatat ttattgaaca tttactgtat gatagggaatt tggcaaagt 540
ttttcatgat cttcacatca actttatgag gtagataata tccacatttt atagctgagg 600
aaactgaaat gtaattggta aataacttaa ctaggctcac acggacagta aataagctgt 660
atgtccaaga ttacaatcta gacagtttaa ctgtggagcc tgcaccatta attgctatac 720
agtatcataa tcatcaccac caccaccatc cctactgtct ctcagatcga tttttaggat 780
attggttaga tgaaacagag tacatgtgat atatagccaa agctctcttc tctataatat 840
tagctctcac agccattggg gtcttcaacc attcagagct gataagcaaa gatatcagcg 900
tactggaaca cagaacagtg ccttgcatag atacctagga caatatctgg cacaaggtag 960
gcactcaaat attcattgaa ggagtggcaa gatggtaact attcacatca acccccgaca 1020
ggacacnntt ttgcaatggc tataacgcgt cctggcccaa gcctaaaanc cat 1073

```

<210> 194
<211> 387
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (67)
<223> n equals a,t,g, or c

<400> 194
actatatttga aagatggccg cctgcaggta ccggtccgga attcccgggt cgacccacgc 60
gtccgtntccc ccaggccgct cgcgccaggcg ccgtgctgtaa actggacgca gacgaggacg 120
gcctccccta cctgtgcact ggctacgacc tgtacgtgac ccgcgagccc tgcgccatgt 180
gcgccatggc cctggtgcac gcacgcatcc tgcgcgtctt ctacgggtgcg ccctcgcccg 240
acggcgccct gggcaccgcg ttccgcatcc acgcacggsc cgacctcaac caccgcttcc 300
agggtgttccg cggggtgctg gaggagcart gccgctggct ggamcccgc acgtaggcgc 360
cgsccttctg scttcggacc cttcccg 387

<210> 195
<211> 973
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (88)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (89)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (101)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (189)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (895)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (960)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (969)
<223> n equals a,t,g, or c

<400> 195
tggtcgaccc acgcgtccgg acccacgcgt ccgtgaagat ggtggtgctt attgactaca 60
agaggaaatt ctacaggatt aggatttnna agactactat nggaattggt tggcagtgcc 120
agctggctct tttttttaat attttattat ttttgtaaac tttattatat gaaggtactg 180
gaataaaaang aacagacatc cttttctaac tgcactgcct acatgcgtat taaggtccat 240
tctgcctgtg tgtgctgtgg ctttgaactg taacacctct aatcaattca ggagaaacac 300
atatcattta aagcaacata ggctaacctg taggtaacac tgcagtattg atgttttact 360
gcaaatctta tgggtctaga taatcagtaa aagccatctt ccatagttgg tgtagaaca 420
ttgccctatt ggtttgaca tctgtagaat atatatgaag acaatttctg taatggtttt 480
aagagattta aaaagaaatt cactggttct ttacaaaata gaatttatca tcaagttatt 540
acacaaactt cacagtaagg agtgacaagt ttataataag gaagacaaag tttaacacct 600
tcaactaagc actccactaa tatatttacg ttgcattcag aaatactgat gaccttcata 660
tacgtagtct gtatactcat agggagatgt actgtattat ataacatgta aagttgattt 720
tcttgtgaca agagaacttc tttttttaac aagaggacat ggcattattt taatttgatt 780
atgggtgagt gaatttaaga catgaccatg aaggctgctt gtagaattag tgatttttat 840
taaactatth tttaatgkca acttctctcg ttwatggatt atagagaacc aaaanctatt 900
actttgggtt tctagaaagg tggtagatat catggcttgg ttaactttat tccttttgan 960
gaaaatttnc ttg 973

<210> 196
<211> 643
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (588)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (605)
<223> n equals a,t,g, or c

<400> 196
gccacatggt tgaaaccccg tctctactaa aaatacaaaa attagccggt gtggtggcat 60
gcacctgtag tcccagctac tcgggaggct gagagaggag aattgcttga acccagtaag 120
cagagggtgc agtgagccga gatcatgccg ctgcactgta acctaggtga cagagcgaga 180
ctccatctca aaagaaaaaa aaaaaatcag aagagttggg ctccagtctc agctgtatca 240
ttttctaact gatttttaca ataaaaatga gagtaaaaaa cagttactct ttctagacat 300
taattagcac atttacgtta agactctaag tagtataaaa tgtaaatgac tgctacccta 360
ctaagttact gtcagtaaat actgtgtgca gtaaatgttg agtatggatt aattgaagga 420


```

tacctctaca attatttcct ttagtcaagg ttgtagctaa gaattgggct tctgacatac 480
attcttttta atctttttcg tattgggktt tatagcacta aacctaattt ctaacatatt 540
tttacacctg aaatctacat tctaataataa aggttttttt ttataacntt cctaaaattt 600
caggnccctca gcaggcagtt tttgtcccag ttttcttcaa cag 643

```

<210> 197

<211> 452

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (91)

<223> n equals a,t,g, or c

<400> 197

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ggcacgaggg cgaacagccc cgacgcgagg acggggaaac caaggcgcca gcaggagac 60
cctgaccgag gttccctggg aaccagtggg ncgaaggcgt gagctgtgtg gccagacaag 120
aggtccctgc cctccccag tgaagccctg ctgttcccgt gggagccatg aagctgaacg 180
agaggagtgt agcccactat gcactcagcg actccccagc ggaccacatg ggcttcctgc 240
gcacctgggg gggcccaggg accccaccga cccccagtgg cactggccga agatgytgg 300
ttgtcctcaa gggcaamctg ctattctyct ttgagagtcg cgagggccgg gcccaytga 360
gcctggtggg gytggaaggc tgcacagtgg aactggccga ggctcccgtg cccgaggagt 420
ttgcctttgc catctgcttt gatgccccct gg 452

```

<210> 198

<211> 1032

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (41)

<223> n equals a,t,g, or c

<400> 198

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ctccttgaca accctggcgg gggttcgctg gctgcggccc nggctccggc ccccgagga 60
gcagcacccc ccggggaaag acattttctg ctcccaccga gttggcaggg cctgcttcct 120
gaatctcctg ggtgtgtctt aactgccagt cccagcacct cctgaaagcc cactctcct 180
ccagtgttca cagtgaagg atcatgggag aaacagaagg gaagaaagat gaggctgayt 240
ataagcgact gcagaccttc cctctggtca ggcactcgga catgccagag gagatgcgcg 300
tgagagaccat ggagctatgt gtcacagcct gtgagaaatt ctccaacaac aacgagagcg 360
ccgccaagat gatcaaagag acaatggaca agaagttcgg ctccctcctg cacgtggtga 420
tcggcgaggg ctttggtgtt gagatcaccc acgaggtgaa gaacctcctc tacctgtact 480
tcgggggcac cctggctgtg tgcgtctgga agtgctcctg acactctgtc ccctgccccg 540
tccctgcag ggctttttcc tgccactcat ctggggtggg gagcagccct aggcaggtcc 600
tggtttttcc aaggagagtt ggggtctttt ctttttgtct ttgtgtacca gtttcctgag 660
ccacgcccag tgtgtgaact tgacatctcc atccccaggc tctcaactgt ctccctcgga 720
gtctcagggg gtggacgggg cagcgggcat gggctctgtg gggagacgtg ggggtggggc 780
gtgtgacagg gtagaggagg tgggagatga gatctccgc acaggaacac gccagtcgcc 840
ctttctccag ggctgccttc cccttgcatc ctgggagccc cactgccctg ccatccccag 900

```

```
tactgccggg aagtgtcggc cgtccttggtc attagtgggc atatgaaaat ggccccaaga 960
aggagatgat tctttcaagg gwcacaggcc tctggtgggg acactggggc aggagtgtct 1020
ttcaccacga gg 1032
```

```
<210> 199
<211> 2732
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
<222> (2190)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (2680)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (2694)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (2701)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (2726)
<223> n equals a,t,g, or c
```

```
<400> 199
tgaatgggac cgtggtttgc tctagcacc cttctctacgc gctttcttgt cccacagggg 60
gccgccgtga tgagcacagc caaccagtt cccggagset ggggcgggtgc akgtctctggg 120
accagggggc cagggtggct cttctctccc caccctcct tggctctcca gcacttcctg 180
ggcagccacg gccccctccc cccacattgc cacatacctg gaggtgacg ttgccaaacc 240
agccagggaa ccaacctggg aagtggccag aactkcctgg ggtccaagaa ctcttggtgc 300
tccgtccatc accatgtggg ttttgaagac cctcgactgc ctccccgatg ctccgaagcc 360
tgatcttcca ggggtggggag gagaaaatcc cacctcccct gacctccacc acctccacca 420
ccaccaccac caccaccacc accactacca ccaccaccca actgggggcta gagtggggaa 480
gatttccccct ttagatcaaa ctgccccctt catggaaaag ctggaaaaaa actctggaac 540
ccatatccag gcttggtgag gttgctgcca acagtcctgg cctcccccat ccctaggcta 600
aagagccatg agtcctggag gaggagagga cccctcccaa aggactggag acaaaaccct 660
ctgtctcctt gggctccctcc aagactccct ggggcccac tgtgttgctc caccgggacc 720
catctctccc ttctagacct gagcttgccc ctccagctag cactaagcaa catctcgctg 780
tggagcgcctg taaattactg agaaatgtga aacgtgcaat cttgaaactg aggtgttaga 840
aaacttgatc tgtggtgttt tgttttgttt ttttctttaa aacaacagca acgtgatctt 900
ggctgtctgt catgtgttga agtccatggt tgggtcttgt gaagtctgag gtttaacagt 960
```

```

ttgttgctct ggagggattt tcttacagcg aagacttgag ttctccaag tcccagaacc 1020
ccaagaatgg gcaagaagga tcaggtcagc cactccctgg agacacagcc ttctggctgg 1080
gactgacttg gccatgttct cagctgagcc acgcggctgg tagtgagcc ttctgtgacc 1140
ccgctgtggt aagtccagcc tgcccagggc tgctgagggc tgccctctga cagtgcagtc 1200
ttatcgagac ccaacgcctc agtctgctca tccgtaaagt ggggatagtg aagatgacac 1260
ccctccccac cacctctcat aagcacttta ggaacacaca gagggtaggg atagtggccc 1320
tgcccgctcta tccctaccct ttagtgaccg ccccatcccc ggctttctga gctgaccc 1380
gaagaagaaa tcttccattt ctgctctcaa accctactgg gatcaaaactg gaataaattg 1440
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aggttggcca gagggtgtga cccagttacc cttaaacccc cacccttcca gtcgggtgtg 1560
agggcctgac cgggccaggg gcaagcagat gtcgcaagcc ctatttatct agtcttca 1620
ataactctta gagttgagac gctaagtgtc atgactcctg gccttgggat gcccaaggga 1680
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caatgatggc atccaggaat tagctgagcc aacagaccat gtggacagct ttggccagag 1860
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accccaggaa aaggaagagg tcgaaccaan cctgcggaag gagcatggtt tcaggagttt 2220
attttaagac tgctgggaag gaaacaggcc ccattttgta tatagttgca acttaactt 2280
tttggtctgc aaaatatttt tgtaataaag atttctgggt aataatgagt cctccggtg 2340
ttcagtattc ttgtctttgt gagtgcgtcc cggggccgcc tcggggcctg cctgccctcc 2400
tgccaaagcc tggaagagga ttgaatggac cccagggttt ggaaacaacc tacagcattt 2460
gagcccctca cgtaggtttt agagacgtac aatttttgtt tgccctggct cagaaggagc 2520
cgggtgtaagg ttgagataaa attccatata gacaactgag tttggatctc ggctctgctg 2580
ctttgtagct gtgggagttc aaacagcacc tctttgagac ttgggccccg cgtcggcaca 2640
atggggcagg aatagtcctg ccagggtgac tgtgtggatn aaggagggtg gaanactgag 2700
nccacgcttg gcactgggta agccanactg ag 2732

```

<210> 200

<211> 2315

<212> DNA

<213> Homo sapiens

<400> 200

```

ggccccccgc ccctccagtg catatcagta tcatggaggg acattactat gatccactgc 60
agttccaggg accaatctat acccatggtg acagccctgc cccgctgcct ccacagggca 120
tgcttgctga gccagkaatg aaccttcccc acccagggtt acatccccac cagacaccag 180
ctcctctgcc caatccaggc ctctatcccc caccagtgtc catgtctoca ggacagccac 240
cacctcagca gttgcttgct cctacttact tttctgctcc aggcgtcatg aactttggta 300
atcccagtta cccttatgct ccaggggcac tgccctcccc accaccgctt catctgtatc 360
ctaatacaca ggccccatca cagggtatatg gaggagtga ctaactataac cccgcccagc 420
agcagggtga gccaaaagccc tccccacccc ggaggactcc ccagccagtc accatcaagc 480
ccccccacc tgaggttgta agcaggggtt ccagttaata caagtctctg aatattttta 540
atcttaacat catataaaaa gcagcagagg tgagaactca gaagagaaat acagctggct 600
atctactacc agaagggtt caaagatata ggggtgtggc cctaccagca aacagctgaa 660
agagagggac ccctgccttc ctctgaggac aggtctctaga gagagggaga aacaagtgga 720
cctcgctcca tcttactct tcacttgagt tggtgtgtt cgggggagca gagagagcca 780
gacagcccca agcttctgag tctagatata gaagcccatg tcttctgctg ttcttcactt 840

```

```
ctgggaaatt gaagtgtctt ctgttcccaa ggaagctcct tcctgtttgt tttgttttct 900
aagatgttca tttttaaaagc ctggcttctt atccttaata ttattttaat tttttctctt 960
tgtttctgtt tcttgctctc tctccctgcc tttaaataa acaagtctag tcttctggtt 1020
ttctagcccc tctggattcc cttttgactc ttccgtgcat cccagataat ggagaatgta 1080
tcagccagcc tccccacca agtctaaaaa gacctggcct ttcactttta gttggcattt 1140
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cacagagggt cccattgtgc agaaaagctc agagtaggtg ggtaggagcc cttctctttg 1260
acttaggttt ttaggagtct gagcatccat caatacctgt actatgatgg gcttctgttc 1320
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ctcagtcttt tgaggtgaag ggaattagag gcccttgctt ctcttctttc cattcttctt 1500
gctacacccc ttttcagtt gctgtggacc aatgcattct ttaaaggca aatattatcc 1560
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gttttagatg ttactacctt attttccccg aattctatct ttgtccttgc agacagaata 1680
taaaaactcc tgggcttaag gcctaaggaa gccagtcacc ttctgggcaa gggctcctat 1740
ctttcctccc tatccatggc actaaaccac ttctctgtct cctctgtgga agagattcct 1800
attactgcag tacatacgtc tgccagggtt aacctggcca ctgtccctgt cttctacag 1860
aacctgaggg caaagatggt ggctgtgtct ctccccggtt atgtcactgt tttattcct 1920
tccatctagc agctggccta atcactctga gtcacagggt tgggatggag agtggggaga 1980
ggcacttaat ctgtaacccc caaggaggaa ataactaaga gattcttcta ggggtagctg 2040
gtggttgtgc cttttgtagg ctgttccctt tgccttaaac ctgaagatgt ctctcaagc 2100
ctgtggcagc atgcccagat tcccagacct taagacactg tgagagtgtt ctctgttgg 2160
ccactgtgtt tagttgcaag gatttttcca tgtgtggtgg tgttttttgt tactgttta 2220
aagggtgccc atttgtgatc agcattgtga cttggagata ataaaattta gactataaac 2280
ttgaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaag 2315
```

<210> 201

<211> 890

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (659)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (828)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (887)

<223> n equals a,t,g, or c

<400> 201

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ggcacgaggg gccgcgcacc tcatggttcc ggggacagtt agggcggcgg atggaggtca 60
gcgggtggtgc tcgctgcggg ttggaatcac ttgctaggag tcttgtctct ctgccacca 120
ggacatcatg gcagctcacc tggtaaagcg atgcacgtgc ctctgagag aagctgctcg 180
tcaggccccct gccattggctc cagttggccg actgagactt gcctgggtag ccataaac 240
```

```
tctgacttcc tcagccacct caccatttc ccacctccca ggttccttga tggagccggt 300
ggagaaggaa cgagcatcta ctccctacat agagaagcag gtggaccacy tcatcaagaa 360
ggccacaagg ccagaggagc tcctggagct acttggtggc agtcacgact tggacagcaa 420
tcaagcagca atggtactta tccggctctc tcaacttgctg tctgagaagc cagaagataa 480
aggcttgctc atacaggatg cccactttca tcaacttctc tgtctgctca acagtcagat 540
tgccctcggtc tggcatggta ccctctcgaa gctgctggga agcctgtatg ctctgggcat 600
ccccaaggcc tccaaggagc tgcagtcggt ggagcaggag gtccgctggc gcatgcggna 660
agctcaagta caagcacctg gccttcctgg cagagtcctg tgccaccctc tcacaggagc 720
agcactcgca ggagctgctg gctgagctgc tcacacacct ggaaaggcgt tggacagaaa 780
ttgaagattc ccacacatta gtgaccgtca tgatgaagggt gggacacntc tcggagccat 840
aatgaaccgc tggaagacaa gcaagttctt gaacagagcg caggacntca 890
```

<210> 202

<211> 1533

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (863)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (872)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (911)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1522)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1524)

<223> n equals a,t,g, or c

<400> 202

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cgatgctgga ccattgatgg gcacctcccg ggacggagat acaactcgtc aacgaatcaa 60
attcagtgat gacagagtat gcaagagtca ccttctcaac tgttgcctc atgatgtcct 120
ttctggaact agaatggatc ttggagaatg tctgaaagtc catgacctgg cttaagagc 180
ggattatgaa attgcatcca aagaacaaga tttttcttt gaacttgatg ccatggatca 240
tctgcagtca ttcattgcag attgtgatcg tagaacagaa gtggccaaga aaagattagc 300
agaaactcaa gaagagatta gtgctgaagt agcagcaaag gcagaacgtg ttcatgagtt 360
aaatgaagaa attggtaaat tgtagccaa ggtggaacaa ctaggagctg aagggaatgt 420
ggaggaatcc cagaaagtaa tggatgaagt agagaaagca cgggcaaaga aaagagaagc 480
```

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<210> 203

<211> 2826

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (285)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2755)

<223> n equals a,t,g, or c

<400> 203

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tagacgccgg gaaaaggcat aaagtccgtt ggccgacacc tttctttcct ccggcctcgg 120
tagaaccgcc agcccgcgtc cgaaggcgga ggcgagggga actggccgcg tgaggggcct 180
gaggcgagcg gttagagcgt ctcccggaag gatgggcccgg tctcggagcc ggagctcgtc 240
ccgctccaag cacaccaaga gcagcaagca caacaagaag cgcancggtc ccggtcgcga 300
tcccgggaca aggagcgcgt gcggaagcgt tccaaatctc gggaaagtaa acggaaccgg 360
cggcgggagt cgcggtcccg ttcgcgctcc amcaacacgg ccgtgtcccg gcgcgagcgg 420
gaccgggagc gcgcctcgtc cccgcccgac cgcatcgaca tcttcgggcg cacggtgagc 480
aagcgcagag cctggacgag aagcagaagc gagaggagga ggagaagaaa gcggaagtctg 540
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cacgaagagt agaagawttg gtagcaaaaa gggtaggagga agaactggag aaaaggaagg 660
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```
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catttgattt tttcactaac agtaaatgta ttttcttat taattgtttg ccttaggaat 2460
gatgaattac attttttgtt ccttcttacc ataaacatct gcattcctca gctcagcctt 2520
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agaatacgtg ggtatacata attggtgaga caaatattca ctttatttat atttnatata 2760
taaaaaaaaa aatttggtwa atactatcca gttttgtagt tgtccttggt gggttggtg 2820
gtatta 2826
```

<210> 204

<211> 1538

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<400> 204

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ataggatatt garctgagag tgaaagcatt gtgtaccatc atttttttcc aagtcctttt 120
ttttattgtt aaaaaaaaaa gcataccttt tttcaatact tgatttctta gcaagtataa 180
cttgaacttc aacctttttg ttctaaaaat tcagggatat ttcagctcat gctctcccta 240
tgccaacatg tcacctgtgt ttatgtaaaa ttgtttagg ttaataaata tattctttgt 300
cagggattta acccttttat tttgaatccc ttctatttta cttgtacatg tgctgatgta 360
actaaaacta attttgtaaa tctgttggct cttttwattg taaagaaaag cattttaaaa 420
```

```

gtttgaggaa tcttttgact gtttcaagca ggaaaaaaaa attacatgaa aatagaatgc 480
actgagttga taaagggaaa aattgtaagg caggagtttg gcaagtggct gttggccaga 540
gacttacttg taactctcta aatgaagttt ttttgatcct gtaatcactg aaggtagata 600
ctccatgtgg acttccctta aacaggcraa cacctacagg tatggtgtgc aacagattgt 660
acaattacat tttggcctaa atacattttt gccttactag tatttaaaat aaattcttaa 720
tcmgaggagg cctttgggtt ttattggtca aatctttgta agctggcttt tgtcttttta 780
aaaaatttct tgaatttggt gttgtgtcca atttgcaaac atttccaaa atgtttgctt 840
tgcttacaaa ccacatgatt ttaatgtttt ttgtatacca tawtatctag ccccaaacat 900
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gctaatatag gaatatcagg ttgactatat agccatactt gaaaatgctt ctgagtgggt 1200
tcaactttac ttgaatgaat ttttcattct gattgacgca cagtgatgta cagttcactt 1260
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gtttataaga tctgaggatg gttataaata ctgtaagtat tgtaattgta tgaatgcagg 1440
ttatttgaaa gctgtttatt attatatcat tcctgataat gctatgtgag tgtttttaat 1500
aaaatttata tttattaatg ccwaaaaaaaa aaaaaaaaa 1538

```

<210> 205

<211> 2342

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2338)

<223> n equals a,t,g, or c

<400> 205

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ctatatgtga gactgacaaa aaccttaatg taatttactt ataatgccag aaggaaaaaca 60
ctattttcat accctacttt ttctgtacct aaattttctt aaaaaaaaaat ctagtatagc 120
actacattct tttttaagtg atgcagacct tagtttcttt agccctttta ttttgaatac 180
aatgctacat atgaatgttg aagctgatac attgcacagt tctgtagaca tctactacac 240
gatgtagttt ctcaaatttt agcaatatgc tctacataaa atcactacag agatactagt 300
ggggaagacg rttaacacac ctsttacagt aatactgcct gttattggta tagcagtggt 360
atgtgcagac tgggatcata aggagccctt aaatacttgt tattgactgg gggtattttt 420
atgctgtagc aaatgtgaca ggctcttttt agcaaaattt ttgaaaattt ttttgggtatt 480
actctgaaac aaaattttaag ttggagtttc agggatttag ggagtagttt tcattctaca 540
tgaactgagg taatatattg gtaactcaa tatttggtta aaaaaactat acaaatcaga 600
atagtactaa aatactgtag aatttttagc tttttatttt gcactttgtg tggattgagg 660
tgttcagaaa taccaaccat aaaaatgtaa tctagtgtggc aaaggtgtgc gctaaaacac 720
ggaaccgaac atgcattgat ttggataact tttgaggggt tttgtcaaat agcatgtgaa 780
gagttacatt tttcttaaaa gattgggtgg cccaatgtca gagttcttgg aacagataac 840
tgaatgatag attttttttt tttaaagata aaactttaca acctgcacat ttgttatgca 900
tactaaatgg tsgttaaata ttagggtttc tttgcctctc tacactacac taatctgcct 960
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tgtagttcca aatgtatttc attactatag tcacaatatc caactaaaaa ttacgctatc 1140
tagaattgta ccaacaaaaa tctcgtattg gcagatcttg acaggctgga cctgcaagat 1200

```



```

gtggcttgaa ttttaacccat ttattacata atctctagtg atcatgcatc tagttatcat 1260
aagaaataat ttaaaagggtt ttgttgctga aagcagtaag tggcgcagta aaatacttaa 1320
gttattcaaa gaatgttatc tttcttgcaa gagtaattta agcacatggg aaagattcta 1380
gactttttgt ttcttgcaac aacagtgtccc tctgctgcta gaaacctttt tctacttact 1440
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aagtctaaat tactgttggt tgaaacacag cagctgtgga gttcagtgca ggcaggaaga 1920
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caatcatttc attttcagac aactgaaatt ttgttttagta tgtgaattct ttttttgaaa 2220
tgtatagtga ataggatgtt gcactgggtg caattcatca tggagcataa taaaattaat 2280
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aa 2342

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<210> 206

<211> 827

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (282)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (442)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (802)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (807)

<223> n equals a,t,g, or c

<400> 206

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gtggagcagg acagatgctg catccaaact cttccattgg gttccagtct gttccagtca 60
tgcccttgag cctctaaagc tcctaggtga gagacgtagc agctgacagc acttcccact 120
tgatttgggt ggactccagc ctccccagca acaataagag atcaaaagca tcgttgagga 180
agcagcttgc tgaaacgctg agtgcccgcc actctcaggt caggtgggac cggcaggcca 240

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gcatgagttc ctgaacactt ggttctcaat actggccaca gncacactgt aaggggaaac 300
aagagggcgc tgtatgcaaa catctcttga actctggagt ctgctcacct tcctgcctca 360
agcccccttc ccacgtggtc cagtcacat tctccacaga gactacccta aaaccacgcg 420
actctcgtgt gcctgcagaa tngcacagcc cgttctcata gcagcactcc tgtttaatca 480
gagggatggt aacgaccaag tcatatttgc tcgatttggt ttcaatatat ttcatttgta 540
ccgataaaac ttaaaaatat cccacacat gcattgccta ttaaagagta tcttccaggt 600
acacctccct tacacatcag ttaacttgat aatttcttcc cattcttggt caataaattt 660
ccttcctgat cagctctgtc cagcagcaac aataatccac gttagagaca tgcaactaa 720
aagtcctgta gtgggaggca cgaacttgat gaggcttgga aaaaaaatga ccgatttgga 780
ttaaaattag gacccatgga tnggganctc ctgcctattt tagaagc 827
```

<210> 207

<211> 2326

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (404)

<223> n equals a,t,g, or c

<400> 207

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gcgtccgggtg gtggactgag taacagtcac ttagagtccc ccttctgtct ctttaaaagc 60
ccctcggagg gccacagtta tcagaacagc ggtctggacc acttccaaaa cagcaacata 120
gaccagagct tctgggagac ctttgaagt gctgagccca ccaagaccgc caagtccccg 180
agcagcgaca gctggacgtg cgcggacacc tccaccgaga ggaggagctc ggacagctgg 240
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aactggtagg gccactgcg cccccgtccc cagcgcctcc gggngacttc gtgtttgcac 420
tctgccctcg tcgttcctcc tccttccatt tgacccaaga atcagcaact gcagtgtgag 480
gacagcgtct cgggaggcag gaccctaggg agaccgggt gtgcgccgcc tgcgcgtggg 540
gagtcttcgg tgcgtggggg cggcttgctg tccagcctgt gtggggggccg tcccgtccca 600
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agccaccggg aaagcagcca gcacaaaggg cccaggaagc cagccccga gagctgagcg 1800
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agggtgctt ggaccctggg gggctgagtg ctccgaggag ggggtggactc caccttgagc 1920
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ccttctgcag gtgcgggcag gtgggcctgg gaccgggtgt ggggcctctc cttgctgtgt 2220
gtgagggccc aggtggaagg cgcggacctg acagcattcc aataaagcat acgggaacat 2280
gmaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gggggg 2326

```

<210> 208

<211> 1462

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1445)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1453)

<223> n equals a,t,g, or c

<400> 208

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tactagtttt tctaagctat ttacagagtg tttgtagctt tcatttgcag cattatgttc 120
ccacaaattc tgtactcagc atatacagta tagtttatct gctctatttc tgccttatag 180
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gctaaagcat cagaggttta atttgaagtt tatgttcaca cactgaaaac ttagtttttt 300
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aagttcaattt ttaaactaag caaaggtaaca cgttgtaacg gtggggcatc tgtgaaaaag 420
atgtcccttt cataatatat gcaatatatt ccagatgttt tgagagatta cagaagagga 480
ggcctgcttc acttgcagat aagtttatta taattctcca gaaatgtgca ggatgtgcat 540
tagcaaatg cactgtactt ttactccag cctgggtgac agagcaagac tcccgtctcg 600
ggggcttaaa aaaaaaaaaa atgctgtatc taaatgaatc tgtgtaattg ggcccagatg 660
tggtttgtct cagtattagt agacaaggtc tttgttcaga cgattagggtg cctaactggc 720
aaatgcctta gtttcttaaa acgtattttc tgatgtggct ttacatttca aaagtgaact 780
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caatagtctt gttacttagg ctgttagatc caagttgatt tttgtgtcta cagctaaatt 960
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aatcccaatg aaaaacctac ccagcaaaga agcatagctt ttagctctaa taattctgta 1140
gcaaagccaa tacaaaaatc agctaaagct gccacagaag aggcactctc aagatcacca 1200
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catccctttg agccattcag ggtacttgt gcattttaa accaacacaa aaagatgtaa 1380
atacttaaca ctcaaatatt aacattttag gtttctcttg cagatttttg gggttaggcc 1440

```

cggtngggcc canggttttt gc

1462

<210> 209

<211> 2581

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2090)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2566)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2572)

<223> n equals a,t,g, or c

<400> 209

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<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (866)

<223> n equals a,t,g, or c

<400> 211

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<221> misc feature
<222> (469)
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<210> 213
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<212> DNA
<213> Homo sapiens

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<222> (869)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (870)
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<210> 214

<211> 4799

<212> DNA

<213> Homo sapiens

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<222> (1164)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2403)

<223> n equals a,t,g, or c

<400> 214

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agtactcctg attcttaaca ttgtctttaa tgaccacaag acaaccaaca gctggccacg 840
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gacgtcatag ctctctccct atagt 1045

<210> 216
<211> 1164
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1140)
<223> n equals a,t,g, or c

<400> 216
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atgcctttct gaagcgaga ggaagcctg ggtgactcag cgggtggtct cattcagcaa 120
aatctcatgt acatttccag taggaaccgc agagggtgtc ttttcaagac tcaccaata 180
ctgtgttttc tctcttagga tttcttttcc cctaaagtat cacggaagat actatggttc 240

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gtgactttct tgctaactga agaagccaag gatttgggggt gtgggggtcgt atgcgagaca 300
cagtggggta aggggtgcata cccacccct tacctgctct catactgcag ttacatttac 360
acccaaaccc catgcagggt tctttgtggt gagtgttcca tacgtgctaa ggaccttagt 420
tgcagattgt tactttctgg tgacctatgt tgaattgaaa ccccaaaaac ttgaaattgt 480
gaacatttga catgcagtaa aggccacctc atcaccacaga gaaatctttg gctgctgcag 540
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gttctgggca agttctgtgt gtgggtgggtt ggggcggtag agtcaygagt tttccacatc 660
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caaaaaaac ctaatctgtg aaatcagcgt agcatgcctg gagcatcagg aatggcagaa 960
aagtctgatg cgctctagac agcttcacca ctcatattggg caggcagtaa acacacatat 1020
ratttattag ctgggactga actggctgtg aaatctatga wttgctttga acatttgggt 1080
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<210> 217

<211> 1594

<212> DNA

<213> Homo sapiens

<400> 217

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ggcacgaggt gagagaaggg cagtttctct cattggaacc tggagcaagc gctctatctt 60
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aattctggtt ttggatatgt tctgtaaaga ttttgacaaa tgaaaatgtg ttttctctctg 180
ttaaacttg tcaagactact agaagtgtga tctctgtagg tgcaggtcca tttctgcca 240
caggtaggggt gtttttcttt gattaagaga ttgacacttc tgttgcctag gacctccaa 300
ctcaaccatt tctaggtgaa ggcagaaaaa tccacattag ttactcctct tcagacattt 360
cagctgagat aacaaatctt ttggaatttt ttcaccata gaaagagtgg tagatatttg 420
aatttagcag gtggagtctt atagtaaaaa cagcttttga ctacagcttg atttatcctc 480
atttgatttg gccagaaagt aggtaatatg cattgattgg cttctgattc caattcagta 540
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gaagccttag aatgggtggc cttgtgacc tgaaacactt cccacataag ctacttaaca 660
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tacaccaaag gaaagacaat tctgaaatgc tgttctctct gtggttccct ctctggctgc 780
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gttaaaacat aaagaaatct aaaatttcaa aaaa 1594

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<210> 218
 <211> 1545
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1512)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1525)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1544)
 <223> n equals a,t,g, or c

<400> 218
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 cgggcgtgga acgggtctgt ttccgggctc gaatccagcc ctggcacggt ggcctgctcc 120
 aaccgctacc ttgctctttc gagatggggc tgccacgccg ccggttcagc tccgaggccg 180
 cagaatctgg tagcccagag accaagaaac ctacatttat ggatgaggaa gttcaaagca 240
 tactcacgaa aatgacaggc ttgaacttgc agaagacttt taagccagct atacaagaac 300
 tgaagccacc aacctataag ctaatgactc aggcacagtt ggaagaggct acaagacagg 360
 cagttgaggc agctaaagta cgattaaaaa tgccaccagt tctggaagag cgagtaccaa 420
 taaatgatgt gttagctgaa gataagattt tggaaggaaac agaaacaacc aaatatgtgt 480
 ttactgatat atcatatagc ataccacacc gggagcgttt tattgtcgtc agagaaccaa 540
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 caaagaagg tcgtaaaatt ttgacaccaa taattttcaa ggaagaaaat cttaggacta 660
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 aatatgacct ttacggttca acaagatact ttggtggaat ggtgtggtat tttgtaaata 840
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 cagagggaaca gaggtttcac atcctgactc cagaaatggg tagctgctag acaaaatcgg 1440
 ggcaagacct gtggaatgat gccatgaggt caagaaaaag ggttttagaga attacagccg 1500
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<210> 219
 <211> 462
 <212> DNA

<213> Homo sapiens

<400> 219

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gtttacaata ctttctgtga taattgtgtc ttacttgggt gtatatatgt ctttatatct 120
atctgtaaag atatagttgc aagtagatga gagacgaatg ttcattgttc tatatggctct 180
gaataaaaagt gttatcacta tgctaacttg cagtgttata aaatgcacca atggctcttt 240
gtgccactcc ttcattttca gtggttacca agatagtcaa attaaactgc tgatgtgata 300
atcatccaaa catttaattt taacactatg attatagaat ttytttattt ctatgagatt 360
tacctatagt agctttctgt ttaakgtyca atgttctata ggagtttcct tttaaagtct 420
cagagcagga gctataccct ctaggatatg caaataatca ag 462
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<210> 220

<211> 3094

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<400> 220

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agtgggttca gagcacagtg agcaaagagg acgccatgcc ggaagcactg aaaagtctca 120
tattcccgaa ttttgaacct ttgcacaaat ttcatactaa ttttctcaag gaaattgagc 180
aacgacttgc cctgtgggaa ggccgctcaa atgcccaaat cagagattac caaagaatcg 240
gcgatgtcat gctgaagaac attcagggca tgaagcacct ggcggctcac ctgtggaagc 300
acagcgaggc cttggaggcc ctggagaatg gaatcaagag ctcccggcgg ctggagaact 360
tctgcagaga ctttgagctg cagaaggtgt gttacctacc gctcaacacc ttcctcctgc 420
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cgccgagcca cgccgacttc agggactgcc gagccgcttt ggcagagatc acggagatgg 540
tggcacagct ccacggtacg atgatcaaga tggagaattt ccagaagctg cacgaactca 600
agaaagattt gattggcatt gacaatcttg tggttccggg aagggagtgc atccgtctgg 660
gcagcctcag caagctctcg gggaaggggc tccagcagcg catgttcttc ctgttcaacg 720
acgtcctgct atacacgagc cgggggctga cggcctccaa tcagttttaa gtccacgggc 780
agctcccgct ctatggcatg acgattgagg agagcgaaga cgagtggggg gtgccccact 840
gcctgaccct ccggggccag cggcagtcca tcacgtggc cgccagttct cgggccgaga 900
tggagaagtg ggttgaggac atccagatgg ccattgacct ggcggagaag agcagcagcc 960
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catcccctct gagtccgaga acatccagaa agactacgtg ttcaagctgc acttcaagtc 1380
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atgttttaag gcaaaacaac caactttgtc tgtagtcttc attttctgtg tgggggggga 3000
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gagggcctgc cccccactgt tccctatgct cccc 3094

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<210> 221

<211> 1756

<212> DNA

<213> Homo sapiens

<400> 221

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ggcacgaggt aagatggaag atgaggaggt cgctgagagc tgggaagagg cggcagacag 60
cggggaaata gacagacggt tggaaaaaaa actgaagatc acacaaaaag agagcaggaa 120
atccaaatct cctcccaaag tgcccattgt gattcaggac gatagccttc ccgcggggcc 180
ccctccacag atccgcatcc tcaagaggcc caccagcaac ggtgtggtca gcagcccaa 240
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cagacagcct ttgggtcctg atgggtctca aggttcaaa cagcgagat aaatgcaggc 480
aagaaaagat gccgccgttg ctgccgtcac cgctcctgg gtcgtccgcc acgggttgca 540
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tcccccttgc tccgcccact gtgacctga accccatgca ctgtgacctc ccccttctc 660
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cacttggcca cttggggtaa agccagtgcc agcaataaca gtttatcatg ctcatatatt 840
tgggatttca aaacacaaat gaaaactcac acccaccac cccaagtgc atgtctccat 900

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cacttaaaaa gtaagttcca tttgaaaata tcctttcttt tttttttctt cctatTTTTg 960
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aatgaatttt taattaagaa agggtagttt ggtagtctac ttaaaaatgt ttctgggaaa 1080
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gcatggcttg aactcttagg ggtctgcagt gctccatctc cattggtggc cccagctcag 1620
taactatacc tggtagattt cctgtgtgca atcagtagct tgaaggcaga acattctgaa 1680
taaagtgtga aaaaraamaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1740
aaaaaaaaaa actcga 1756

```

<210> 222

<211> 571

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (478)

<223> n equals a,t,g, or c

<400> 222

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agacgatgcc gccgtggaga cagctgagga agcaaaggag cctgctgaag ctgacatcac 120
tgagctctgc cgggacatgt tctccaaaat ggccacttac ctgactgggg aactgacggc 180
caccagtga gactataagc tcctggaaaa tatgaataaa ctcaccagct tgaagtatct 240
tgaaatgaaa gatattgcta taaacattag taggaactta aaggacttaa accagaaata 300
tgctggactg cagccttacc tggatcagat caatgtcatt gaagagcagg tagcagctct 360
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gctggagaag cgatgagaaa cttatttcta tgggacagaa gtcttttttt tttaatgngg 480
aagaatgctt ataaaacctg aatcctgagg ytgatgaatt gkgaaaatcc tcaaaaggaa 540
attatgtggc atcacaggac attttaacgg t 571

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<210> 223

<211> 1697

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (221)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1084)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1320)

<223> n equals a,t,g, or c

<400> 223

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aggcttaacg cgcaggaggt ctccagagag tggaagcaac tctcgcgaat tttaaaattt 120
atctttttgc ctacgcgactg acaacaggct gggtgcttgg cgtggaatcc taaagtggcc 180
tggttttgag actggagtga gaccccagcc ctaggctggg nttctttcca ttatagagga 240
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tgatgatgat gatgaagagc atggagcccc tctggaaggg cctatgacct tgcagactat 600
gagcatttgc cagtttctgc tgaaattaag gaactcttcc agtacatcag taggtacaca 660
cctcagttga ttgacctgga ccacaaactg aagcctttca ttctgattt tatcccagct 720
gtcggggata ttgatgcatt cttaaaggct ccacgtcctg atggaaagcc tgacaacctt 780
ggcctatttg tattggatga accttctaca aagcagtcag accctacggg gctctcactc 840
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caccgttcta agccccctgc gactgtgcac tacaccaggc ccatgcccga cattgacacg 1020
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caattccacc tccaagctg gagacatgga gacattaacc ttcagctgag acacttcccn 1320
aartgctgtt tcaaggctg arctggcccc tctgccccag ctgagatgga cagatcggtg 1380
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gctgtccccg gggagttaat gcatctacac ctatgtgggg atttgagtta taagaatttg 1560
aatttctgag attccatgga ggtagattg ggaggaaaagc ttaaaagatg tcctttttgt 1620
gagagggatg gaattgtttt ctttcattcg taaagttagt gagtaaagat tttataaatt 1680
aaatgctcta aaaaaaa 1697
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<210> 224

<211> 2156

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2155)

<223> n equals a,t,g, or c

<400> 224

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ctgtgtaaca ttcatacttt gaacaattta tgttggtttc taatacctaa ttaaaactaa 120
```


agagtaacta gcaattttat cttttattca ataaggaagc actaagtaat atggatgatt 180
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garggtcact gcgacattcc ctagccactc aaaatcaacg aagtgaagac aacagggttc 360
cactaccttt tcctttccca tctaagttat atatcatgtg catggcgaat ttggaggagc 420
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ggcagatttt tactattgat ggccccctgt gcttgaagaa tgtacagtct atgtttggaa 540
aactgataga tttggcatat acgcctttcc atgctgttct caagtgtggc cacctaactg 600
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gagcttgctg agtacaacaa caccaccact aagtttcaga actttcctta gaacttgggc 1980
aaaatgtggt ggtaactctt aagtgccttt ggtatctctt gagattctaa cttttaaaga 2040
gcaaccatta atgtgtaaaa tgattcctat tattcaaggt ttttttttaa tgaaaaataa 2100
atatttgatt ttctagaaaa tggtttcact atgaaaaaaa aaaaaaaaaa aattnc 2156

<210> 225

<211> 1791

<212> DNA

<213> Homo sapiens

<400> 225

taccggttcg gaattcccg gtcgaccac gcgtccggga actaaagccg ggtataagct 60
gttttctctg agttctgtgg agcagctgga tcaagtccac ggaagcaatg aaatcccgga 120
cgtctacatc gtggagcgcc tcttctccag cagcctgggtg gtggtagtca gtcacacaaa 180
accacggcag atgaacgtgt atcacttcaa gaaaggcaca gagatctgta attacagcta 240
ctccagcaac atcttgtcca taaggctgaa ccggcaagg ctgctgggtt gcctagaaga 300
gtccatttat attcacaaca ttaagacat gaagctgttg aagaccctcc tggatattcc 360
tgcaaaccac acaggtctat gtgctctctc tatcaaccat tccaattctt acctggccta 420
tcctggaagc ctgacttcag gggagattgt gctttatgat ggaaactccc tgaaaacagt 480
ctgcactatt gctgccatg agggaacact agctgccatc accttcaatg cctcaggctc 540
caaactagca agtgcgtctg aaaaaggcac agtcatccgg gtgttctctg tcctgatagg 600

```

gcaaaagctc tatgagttcc ggagagggat gaaaagggtat gtgacaatca gctctctagt 660
gttcagtatg gattcacaat tcctctgcgc ctccagtaac accgagacgg tacacatctt 720
caagctggaa caggtcacca acagtcgacc agaagagcct tcgacctgga gtggctacat 780
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cctctcaacg atccagaagt tgccacggct gctagtgtgcg tcatccagtg gacaccttta 960
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gcttggtcca ggaacaacag aagagaataa agaaaatgac ctccagacctt ccttacctca 1080
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accagtgtgt cttgatgatg agaatgagtt tcctcctata atcttgtgcc gtggaaatca 1260
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ccggaatttt atattaaaag gggcctcctt tttaaatata tgccgtgtaa aaaatgtact 1620
tataggaaca tctctttgaa ttgtatttct tgatatattac atacttagag agagactctt 1680
ttagccaggc aaagtctttt ttggctgtgg ctggaataaa tcattttatta cttgggagtc 1740
ccattttgga cactaataat aaaatcatgg caatgcattt ttgaggtttt t 1791

```

<210> 226

<211> 1525

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (44)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (591)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (601)

<223> n equals a,t,g, or c

<400> 226

```

cctccctccc gggcctgggc gccagcggga caggtagcgc gcancaggta tggcgttgac 60
ggtggatgtg gccgggccaag cgccttgggg cttccgtatc acagggggca gggatttcca 120
cacgccatc atggtgacta aggtggcca gcggggcaaa gcaaggacgc tgacctccgg 180
cctggagaca taatcgtggc catcaacggg gaaagcgcg agggcatgct gcatgcagag 240
gccagagca agatccgcca gagccccctc cccctgcggc tgcagctgga ccggtctcag 300
gctacgtctc cagggcagac caatggggac agctccttgg aagtgtctgg gactcgtctc 360
cagggtccg tgaggacata cactgagagt cagtcctcct taaggctctc ctactccagc 420
ccaacctccc tcagcccag ggcyygcagc ccttctcac caccacctc tagcagctcc 480
ctcactggag aggcrgccat cagccgcagc ttccagagtc tggcatgttc cccgggcctc 540

```

```
cccgctgctg accgcctgtc ctactcaggc cgccctggaa gccgacaggc nggcctcggc 600
ngcgctggcg actcggcggt gctggtgctg ccgccttccc cgggccctcg ttcctccagg 660
cccagcatgg actcgggaagg gggaagcctc ctccctggacg aggactcggg agtcttcaag 720
atgctgcagg aaaatcgcga gggacgggag cccccccgac agtccagctc ctttcggctc 780
ttgcagggaag ccctggaggc tgaggagaga ggtggcacgc cagccttctt gccagctca 840
ctgagccccc agtcctccct gcccgccctc agggccctgg ccacccctcc caagctccac 900
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acctgtcttg gactgtggga gactcaccct caccttgcca ggcctctccc ctgcaggact 1320
ggcattgcac tagtctgagg tgccactgc ctttgatcaa cttttgtgtg cgagggtcta 1380
agtagggtcg aacacagaag tgggaaggag aggggtgggc caggggctaa tgggtgcact 1440
gtgtaagtt tttgacatac tagctctata aatatatgaa tatggacaaa ataaaaaaaa 1500
aaaaaaaaa aaaaaaaaaa aaaaa 1525
```

<210> 227

<211> 1611

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (840)

<223> n equals a,t,g, or c

<400> 227

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agggcctaag ttaaggagtt taaacaatat ttataaataa tgagaggcat taaatatatt 60
ttttaattag aggtgactgt tactgcaaaa aaaggatact ctacaagaaa tataaatttg 120
atagcaagat aacaattttg agatgagaat gaatagtga cttgctgatt ctgtagcaaa 180
acctgggtgg ggggtggggg ggggggtagt ttactttgtt gtaaggactt gataacctgg 240
ctacagcggt ttctatgaaa tctacttgga tcccatgcct gaaatttgga agcatatgta 300
caaaaatcat ttttacgttt ttttttaaat aaatcattgt gtttgaccgt acatgtctaa 360
catttttttt ctaggatcca ttccgtaccg ttttttaagg gatatttggt taagacttta 420
cgtgttaatt ctttattctt gatgtgtact tagagaaact taagagggtc tgtggttttt 480
ttccctctc ctggtgccct gctagttgcg tgttgaatta tatcccttac aggcaaaact 540
tttgaagtgg tggatgtggc tttttaaaact cttaagtctc tgtgcatcca tctctgttac 600
taagcgaatt gtttatcatc ttgacatggt tggtcatttc tatgacaatt tacttcaaac 660
tgtgtactgt gtagttctat atagtttggt ttaagcatgt cattcatata aactgtttaa 720
aatttttcag atggcctagt ttcatccctc ttactggttt gtctgtaatg aatgggttaa 780
aataaggggt atattttacc ctcaaagcg tttttgtact ttcagagcag gtttaaacgn 840
tttttttttt tttttcctat atccgaactg ttggcctcat ggaaatccct tcccgatct 900
ttgtagcacc atctactggc agaatggcag agtagctgcg aaacaatttg tttaaaaact 960
tgcttaagac aattgcatca gatttggaag ttttgccatc aaaattcttt gcagaattgg 1020
aagttaacac atttgcttgt aactgagatg ggcttcacag gaatgtagtt gccagttcat 1080
atcacaaatg ccctttctat atgaggtttg aaaatgtaaa ctgctatgca tagcttgga 1140
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aagttgtaaa gcaaaatata tgtgtattct gcttggttaa caaatgtata tttgtagccc 1260
tttcctgcaa tagcattcaa gttgttggtt ataagagaag aacaaaagtg ataataaggt 1320
```

```

aaaattgcct ttctggatag aaatagagaa tagcaacggt tatggatatc acaaataaag 1380
aattcaattc ttacatgat tgagtgaag tatgtataac ctggtgggtg gggtcagagt 1440
accttttaac ctagtatgct taacttgatg ttaatattta acttaaatat ttgacttaca 1500
tggttgacgt gaaggctcaa agctatacta agaagctttc tgaaagattg ggcttttaaaa 1560
taaaataata ttttaatat gaaccatttt tacttcttgt cactgttcaa t 1611

```

<210> 228

<211> 1639

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1267)

<223> n equals a,t,g, or c

<400> 228

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tcgacccacg cgtccgcagt agtcggcgta ggccttaggt gggttcgtgc gccttctacc 60
tcgctgtttc ggttttcctg gctcctcggc ccttttctcc cctgttgag ctgggagcgg 120
acgaagcgcg aastgggatt ttttactgtc tcctgaagaa tttaacacaa acatggatat 180
cagaccaaat catacaattt atatcaacaa tatgaatgac aaaattaaaa aggaagaatt 240
gaagagatcc ctatatgccc tgttttctca gtttggtcat gtggtggaca ttgtggcttt 300
aaagaccatg aagatgaggg ggcaggcctt tgcataattt aagggaactgg gctcatccac 360
aaatgccttg agacagctac aaggatttcc attttatggt aaaccaatgc gaatacagta 420
tgcaaaaaca gattcggata taatatcaaa aatgcgtgga acttttgctg acaaagaaaa 480
gaaaaaagaa aagaaaaaag ccaaaactgt ggaacagact gcaacaacca caaacaacaa 540
gcctggccag ggaactccaa attcagctaa taccacagga aattcaacac caaatcctca 600
ggtccctgat taccctccaa actatatattt attccttaat aacttaccag aagagactaa 660
tgagatgatg ttatccatgc tgtttaatca gttccctggc ttcaaggaag tacgtctggt 720
accagggagg catgacattg cttttgttga atttgaaaat gatgggcagg ctggagctgc 780
cagggatgct ttacagggat ttaagatcac accgtcccat gctatgaaga tcacctatgc 840
caagaataaa catttgggat agtcgtcttt aaaagacttg gtgttattta cagtgtttgt 900
tttgataaca tttggctggg tcattttaat agttagagat gaggaggagt aaaagtgaag 960
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aaggccttaa ttttgtacaa taaactttta tttgtattct gtgtawawaa tgctttcttg 1080
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tgaaccattc aataaaaagt aagtaaaatt agatcacaga agctagtaga tgactgttgt 1260
ratkaanggt aacaatgatt gttcctgggt attagaagaa aatgagaccc caggcaggat 1320
cctaaatttg atctttgtat ctttttaaga aatgaatata ttattttgcc tgcctagtag 1380
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gaaaacagaa agggaatgct atcttcacac tttgcattta atgctgtttc cttcatgagg 1500
caggactgtt ctaaggttaa tatgcaatct ctttattgaa agacctccag ggtaaaaaatt 1560
ttttgatcta tagtctcttt tcccccttaa gacaaataga ctgattaata aagagttgcc 1620
agtgctaaaa aaaaaaaaaa 1639

```

<210> 229

<211> 1083

<212> DNA

<213> Homo sapiens

<400> 229

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cagtgcgcgg agtctgaggt cgctgtggac tgcccactgg tttgagacgg taacatctgt 60
tttgcaggat tgtgaaaaat gaggtcctct ttctagagta cctgacaggt tgcttgccat 120
ccagaagatg tttagctaag gccttgcccg agatggacag ccggattcct tatgatgact 180
acccggcggg tttcttgccct gcctatgaga atcctccagc atggattcct cctcatgaga 240
gggtacacca cccggactac aacaatgagt tgaccaggt tctgccccga accatcacac 300
tgaagaagcc tcctggagct cagttgggat ttaacatccg aggaggaaag gcctcccagc 360
taggcattct catctccaag gtgattcctg actctgatgc acatagagca ggactgcagg 420
aaggggacca agttctagct gtgaatgatg tggatttcca agatattgag cacagcaagg 480
ctgttgagat cctgaagaca gctcgtgaaa tcagcatgcg tgtgcgcttc tttccctaca 540
attatcatcg ccaaaaagag aggactgtgc actagaaagt tgcagcccac agcccttcat 600
gtggactctg tcatgacatg ctaactagac ttcaggggag ccacttctgt tttcagcccc 660
tccttggaaat agtgagttgg gaggatggg agacagctaa ccaactgcat tacccaaacc 720
atattgcact tttagttccc tagttttcta ggtgagcttc attccctgaa aggaggatga 780
tgatatctag gcataaccta gcctgtgagg aacctagtta ggaaagacaa ctgacattta 840
ttgaatatca tgcactagtc cttacatat gtcatatttt aattatagaa atcagtagca 900
aaaagaatct tggggatttt ccactgact tccctggcca tcttatccca tccttgcaact 960
accagaagat tcatacactt ttgagactcc agtgagacgc tgttttcacc ccttcctcct 1020
cctagcctct ctccccaaaa gtaaaacaca atgctgaaga aaaaaaaaaa aaaaaaaaaa 1080
aaa 1083
```

<210> 230

<211> 359

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (246)

<223> n equals a,t,g, or c

<400> 230

```
gtgacggagc gcggtgcgcg cggcagggcc cggagtatcc cgctttcttt ggaggaaacc 60
accgcatcag atctgcgctg cggcagagggc aggcaagtcc ctacgctgga ggggcagcat 120
gctggcagca cttggggagg cggcgcgcta agggattcac gctgtaactg ggaccgcagc 180
agggaactac aatttccata gtgctccgcg ccctccagc tggtctact gccggcgacg 240
cgttgngtac acytggggat ttgttagtct tacatggstt tgcgcctcct acctggaagc 300
gggccagcga ttggtaccag ttcagacatg ggtacacgtt tgaacagggc cgccgcctt 359
```

<210> 231

<211> 355

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (333)

<223> n equals a,t,g, or c

<400> 231

```
ggcagagggt ttcttttctca taagaatgaa atcttggaat ttgctctgga tcaaaaagga 60
```

```
cttaccaatg atagaaaaat tgctttcatt gataaaaaata gagatctctg tatcacttct 120
gtgaaaggat ttgggaagga agaacaaatt atcaagcttg ggaacaatgg tgcatacttt 180
ggcatggaac gatacatgca atatcctttg tggacttcaa gatactcgat ttatagtgtg 240
gtattacccc aatacagttt atgtggacag agacattttg cctaaaacat tatatgaaag 300
ggctgcaagt ggaatttagt gaaaaatgcc ccntattgtg gagttttgtt gggaa      355
```

<210> 232

<211> 374

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (287)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (323)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (332)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (334)

<223> n equals a,t,g, or c

<400> 232

```
ggcagaggga ggcctgggccc tctctgcctg ctgtagccgt ctgccgcgcc cttgttcctg 60
cagctgtcca gttatctttt gactgccaca tatggacccc aaaagatctc aaaaggaaac 120
tgtcctcatt acaggaggaa gtggctatth tggttttcgc ctgggctgtg cctgaaacca 180
aaatggagtc catgtgattc tgtttgacat cagcagccct gctcaaacca ttccagaagg 240
aatcaagttt atacaaggag acatccgcca cctgtctgac gtrgagnaaa gccttccagg 300
atgcagacgt camttgtgtg ttncawatt gncncttatg gtaatgttca gggcgggagc 360
aaactcaatc gaaa                                     374
```

<210> 233

<211> 432

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (288)

<223> n equals a,t,g, or c

<400> 233

```

aaaaaccaaa aaaaaaaatt tttgaaccaa acaaggggaa aaaaaggagt tggggcaaaa 60
caggaggcgt ttccctaccc gcatacatcc ccgtccccga gacacccaat cccccaccc 120
ccagcctgcc cgcgcctccc gccccagct cctcgccctg gggacagctg gcagccccgc 180
gcggaaccaga cacaaagccg atcaatcccg gaggcgtggg ggcggaggga cgaccgcgcg 240
gggctttccc gggcgtgct ctctcctgc tgccccctcg ctaggacncg gcggacgcct 300
cgtctgggtt tcacgcccct tagcccctac cccacacccc ccaaaacaga acagaccccc 360
atccctgggc tggaggaccc gcctcttggc agccagctga gaaggcgccc cggggagggg 420
gaaacctctg cc 432

```

<210> 234

<211> 366

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (192)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (251)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (320)

<223> n equals a,t,g, or c

<400> 234

```

gggcagtagg agtatgcagc cctccccaga cacctgamcc tgctggtgcc ttgatcttgg 60
acttcccagc ctctgaagc atgaggacag aaatttcgt gctgtataga ttaccagcc 120
tatgctgttc tggtattctt camaagcaga tggagacgga cggatcagca mcctccacam 180
ggggaactga angacggggc gaggtcagcc cggcaatagc aaaccaggcc aggggagggg 240
gtggctgaca ncaggcaggg gggttactag gaacagggtca tgaaaggccc tcttacagag 300
gtgggcctgc agcaggcatn agcttaaaagg atgggtttgg agcttcagtg tgggttgag 360
ccagag 366

```

<210> 235

<211> 428

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (370)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (383)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (405)

<223> n equals a,t,g, or c

<400> 235

```
gtcacgagct cgtgcactct acgggaggggt agctccagct gcagccagag tgtggccctg 60
aagacatcag agagcagggc actcccacct gagagggagg gggaacaaaa ggagaagcct 120
agagcaggca gggcttgctt tgtttggttg tttggtttt ttagttttat tttcttttc 180
agagaagaca gtttcaagct ctctcttaag taagggtgga gccactggag ggcatgaact 240
gaggcgtgag atgttatgat ttactaatga acaagatcac tctggccact gagataggag 300
tgggaccaca agaaggaagg gttagaaggy tggtggattc accaagccaa grgttgwtgg 360
cgtttgaacn ggggctttac agnaaaaaagg gttccaaaaa gtttnatttc tggatatttt 420
gaagttgg                                     . 428
```

<210> 236

<211> 966

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (896)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (956)

<223> n equals a,t,g, or c

<400> 236

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cggacgcgtg gggatgctcc ggctgctcag ttccctcctc cttgtggccg ttgcctcagg 60
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<210> 237
 <211> 697
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (473)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (693)
 <223> n equals a,t,g, or c

<400> 237
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<210> 238
 <211> 2267
 <212> DNA
 <213> Homo sapiens

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 <222> (250)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (824)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (2267)
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<400> 238
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<210> 239

<211> 767

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (748)

<223> n equals a,t,g, or c

<400> 239

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aatccattac caagaagtgt gagaacgca gcagctcatg gaaggaaaca gaacttgctg 300
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gagagggcta gaagtttcat gattctcata ttcacccgga aagatgactt aggtgacacc 540
aatttgcatt actacttaag ggaagctcca gaagacattc aagacttgat ggacattttc 600
ggtgaccgct actgtgctt aaacaacaag gcaacacgct ctgagcagga gcgccagag 660
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<210> 240

<211> 1718

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (71)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1505)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1632)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1656)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1715)

<223> n equals a,t,g, or c

<400> 240

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gcgaggccga gagcctcaag ggcaagctgg aggaggagcg agccaagctg cacgatgtgg 300
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gaccctcaaa ggccacggga acaaagtcct gtgcatggac tgggtgcaaag ataagaggag 420
gatcgtgagc tcgtcacagg atgggaaggt gatcgtgtgg gattccttca ccacaaacaa 480
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ggagcacgcg gtcaccatgc cctgcacgtg ggtgatggca tgtgcttatg ccccatcggg 540
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<210> 241

<211> 3599

<212> DNA

<213> Homo sapiens

<400> 241

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<210> 242

<211> 2887

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (2850)

<223> n equals a,t,g, or c

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<222> (2883)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2885)

<223> n equals a,t,g, or c

<400> 242

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gaaactgaca catgctgaac atcacagctt atttcctcat tttataatg tcccttcaca 2700
aaccagtggt tttaggagca tgagtggcgt gtgtgtgcgt cctgtcggag ccctgtctcc 2760
tctctctgta ataaactcat ttctagcara aaaaaaaaaa aaaaaaaaaa aaaaaaana 2820
aaaaaaaaaa aaaaaggggg gccgccaan aggatcccc ggggggcccc agcttacgcg 2880
tgnncgc 2887
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<210> 243

<211> 1253

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (109)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (415)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1059)

<223> n equals a,t,g, or c

<400> 243

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cggaacatta ctctatccc tgcacacca cgaccatgst gccgcgcagt gcctactggc 60
accacatcac tgggtcccag aacatcgccg aagcctccag ctatgctgnt gaggggtatg 120
gggcagccca ggccagctcg gaaacagacc tcctcaacag attcatcctg ctaaagccaa 180
agcccagcca gggggacagc agtgaggcca agaccccatc ccagtgacca cagtgtctggc 240
gagcaccgat gactgctggg ggctgcctgc tgcggggctg gctgcagtgt accgtggaca 300
gcctcagggg gctgtcggcc aagagcctgg agaaaggag caagctgccc cctccttgcc 360
cccaaggwtg aggstggact gagggcaaagg gctggccaca ccacctgagc atgtntkaag 420
gggttgagc taccgtggga ctatatactg ttaatgattt taatatatat ggcttatgac 480
atactctgta tcaatgagat cccctcaccc tcaccccatc cttccccacc aatacacaca 540
aattttttaa tcccatgacc aggccacggg caaggctgtt tttgagtatg agtgcagtcg 600
tgtccatcct ccattggcaca gccctcctgc tgccaggacc tgcttgaact accagggcca 660
caggaggggg ataatacagag cttgaggctg gcactctgac tgctggcttt tcccaaacag 720
cccaagggcc ggaacagcag gtggcttctc agttcctctg ggcttgaggt gacacaggaa 780
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cttctctgct ttagagctgg gaagatgccc ctggggtagg ggtgctgatt acctcagcca 960
tgtggaggaa ggctggagct tgttcctgcc ccagkaatag gccaggaggg aaggccgcag 1020
caggactgcc gtggggagca cccctgctgc cccctctna ctgaccaggg gtggacaatg 1080
```

```
cccaagcaga gggagcccc ttgccctggt tggccaccct ytgccagcc aaaagcactc 1140
tgaaaaccaa saccttccca ttccctctc cccacatggt gctgaggctc cctgstgcaa 1200
tgcaattaaa gcaattgatt ttctagtgtt ggtatttgtt gactaccatg cag 1253
```

<210> 244

<211> 1602

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1579)

<223> n equals a,t,g, or c

<400> 244

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cttggngaa agagaattca tttttaaaaa aaaaaaaaaa gtgaaggag gagacagcag 60
attgaaata acactggagt ggatgggatg tcytyttccc tragggggccc ggggtaccag 120
acgggaggct gggagaggat gagaggctgc cccatggctg gaggcagcgt ccgtgtgtgc 180
agtcaccatc atcaaccccc attcggcccc tccccagat gcgctggtga caggggcttc 240
ttggatgtca aatcatgttg taggaggggt cagactgcgg gcttctgttg ggagcagtac 300
tactgtgtct gtcggcagtg gccatgggac cctcagcccg tcctgtacat ggagcaggg 360
gcacagtcac cctccatcct gtggcgagag gctggcccgg cccggccagg cgaggcagaa 420
ggtgtcggcc aagtggcccc gaccccatcc cgcaatctct cagctgcttt ttattacctt 480
tgtgccccat ttgggagttt gcttccctcca cctggacact ttgcccggga ggtcatcaga 540
gcccaccccc aggtctgtgt cggttgaga ggggatgact tcaccaccac ctgaccttcc 600
tagggctctg gtctcactgt cagctggggg tccgttgtgt gtatttgtac agttttgtgt 660
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ggcatctgag agacctgggt ttccagtgtt tctggaatg ggtcccagtg ccgccggctg 780
tgaagctctc agatcaatca cgggaagggc ctggcggtgg tggccacctg gaaccaccct 840
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caacagtgc ctgtgcattc tgctgtggcc tgctgtgtct gcagggtggc ctcagcgagg 960
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ttcatgaata ctttgaaagg gccattagaa aaaataagag ccaatttggg tcatttgaga 1260
aacattttca gcacaattac agtgggggca cgggccgttc ggctccagct gggttttccc 1320
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ggacctcatc ccgatggccg aggcaggggc tccccacggg ataaaaggat ccggcctggc 1560
cttgggggtcc aagaggagng ccaagggagt ggacctggcc cc 1602
```

<210> 245

<211> 1284

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (63)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (73)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (170)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1229)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1272)

<223> n equals a,t,g, or c

<400> 245

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cggaaggatt ggggttcacc ngcccttcaa gtggtcttcc ttcaccccc caaggcccag 60
tgncagttgg aanttgggtc gaagatcgct tatggcacca gttcaagggg gcgtccgggt 120
catcgtgcag cctcccgaag actgtggctc ggggcttcag ctcttcagn ctttactgt 180
gcaccgcagc cctgtcacca agatcatgct gtcggagaag cacctcatct cagtctgtgc 240
cgacaacaac cacgtgcgga catggtctgt gactcgcttc cgcggcatga tttccacca 300
gcccggctcc accccactcg cttcctttaa gatcctggct ctggagtcgg cagatgggca 360
tggcggctgc agtgctggca atgacattgg ccctacggt gagcgggacg accagcaagt 420
gttcatccag aagtggtgca ccagtgccag ccagctcttc gtgcgtctct catctactgg 480
gcagcgggtg tgctccgtgc gctccgtgga cggtcaccc acgacrgcct tcacagtgtc 540
ggagtgcgag ggctcccggc ggctcggctc tcggccccgg cgctacctgc tactgggcca 600
ggccaacggc agcttgacca tgtgggacct aaccaccgcc atggacggcc tcggccaggc 660
ccctgcaggt ggctgacgg agcaagagct gatggaacag ctggaacact gtgagctggc 720
cccgcggct ccttcagctc cctcatggg ctgtctcccc agccctcac cccgcctc 780
cctcaccagc ctccactcag cctccagcaa cacctcctt tctggccacc gtgggagccc 840
aagcccccgc caggctgagg ccggtggccg tgggtggggc agctttgtgg aacgctgcca 900
ggaactgggt cggagtgggc cagacctccg acggccaccc acaccagccc cgtggccctc 960
cagcgtgtct cggactcccc tcacacctcc caagatgaag ctcaatgaaa cttccttttg 1020
aacaacgcag ctgccatgat gccttgggat gccctggtcc tgggggactc aggtgcctcc 1080
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ctgattcctg tgggaacccc gggttcaggg ccagggcctc cttggaataa atggttattg 1140
ttactaggtc cccaccttcc ctcttttctg gaagccaaag tcascctccc caataaagtc 1200
ctcactgcc aaaaaaaaaa aaaaaaana aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1260
aaaaaaaaa anaaaaaaaa aaaa 1284
```

<210> 246

<211> 2094

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2086)

<223> n equals a,t,g, or c

<400> 246

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ttttctctgg agaaccceaag ggcttgggggt gggaagcagt ctctccttgg gattctgcgg 60
ccgatgtggg atagaagagg tagcatcctg gaagccagcc tctctgggga acatgagccc 120
ccttcctcgg ggggctgcct tgcgtcttag aggagggaga gcagagagca cgcacacctg 180
gtcctctggc ctctgagctt cctgatacag gatctgagca tgtccctggg attctgagct 240
gccaacaggg ccctgggtag tcacatcttg tactccccct tgctgtcccg gaggtagtgg 300
caggagtgg gccagcccc actaagtggc aggggaagac tcacgattgg gaagctacct 360
ctttgggaat cttggatgtg gtgatctcaa gttcccacag gccacctcct tctggccact 420
cactgctggg acccaggcac ctcccttctc catcctctct ggattgtcag taatgtcctg 480
gaacagaagc ctgtrggatg gccttggcac ggagaagccc tggggtcagt gtcgtgcacg 540
gatggcggca gtgttgaacc caggaggctg aaccggccc accacggaag atgagtgcac 600
ggcaaccgcc tgccttcacg tcgctccact tggtaacccc aaggtctggg ctgttctagg 660
tattgcttca cgtgccccag caagccctta acaagagggc ctgggtccct gaagaaccaa 720
tcccaggaag gggccttgat ccctccgcct tgctgagagt gaacctcgt ctctcctcac 780
cctccatttc atttctggga attggggctt agtttcgaac ctttggcaag gctgttctta 840
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aactcctgtg aatattcttg ttatgctaga gaggaaggta cttctccctc tacggctctg 1080
cgctggggcc tatggtagta aagtgttta ctgtcctttt tctgcttccc ctggaaatga 1140
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tgcgctgccc ttgatgatca aggttggggc ttaagtggat aaggagggca agttctgggt 1560
tccttgccct ttcagagcat gaggtcaggc tctgtatccc tccttttccct agctgatatt 1620
ctaactagaa gcatttgtca attcctttgc ctcccaactg acaacacacg ttcattttcc 1680
aaccttcta acatcttaaa ctttcttct gggagaacta gaagacagaa tttgctttga 1740
ttctctcagg cgctgtgcac aagccaggtc ttctgttttc tctttcttac tctaccaca 1800
ttcttgctt ctctatccaa ctgtgaaagt gaggggaggc tcctgtcccc ctctcttaag 1860
gtccccaac ctgggagtg ataggtacta aatcaagcag tgcaacttgt aattaagcag 1920
ctgcagtgtt tacatgtttc ttaatgtgtc atcttttcaa tggctgtatt aaaagaagaa 1980
cgtttgtttt aatggtcttt ctgattaaag aaagcccctg tggctttgga ggcattgtgc 2040
ccacggtcca ccaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaanaaaa aaaa 2094
```

<210> 247
<211> 1019
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (111)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (879)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1010)
<223> n equals a,t,g, or c

<400> 247
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cctgcttcaa gcttatccag gacctgctct ccttcatcaa tccacagctg ntcagcatcc 120
tgatcagggt tatctccaac cccatggccc cctcctggtg gggcttcctg gtggctgggc 180
tgatgttcct gtgctccatg atgcagtcgc tgatcttaca acactattac cactacatct 240
ttgtgactgg ggtgaagtgt cgtactggga tcatgggtgt catctacagg aaggctctgg 300
ttatcaccaa ctcagtcaaa cgtgcgtcca ctgtggggga aattgtcaac ctcacatgac 360
tgatgaccca gcgcttcacg gaccttgccc ccttcctcaa tctgctgtgg tcagcaccac 420
tgacagatcat cctggcgatc tacttcctct ggcagaacct aggtccctct gtcctggctg 480
gagtcgcttt catggtcttg ctgattccac tcaacggarc tgtggccgtg aagatgcgcg 540
ccttccagggt aaagcaaagt aaattgaagg actcgcgcac caagctgatg agtgagatcc 600
tgaacggcat caaggtgctg aagctgtacg cctgggagcc cagcttcctg aagcaggtgg 660
agggcatcag gcaggggtgag ctccagctgc tgcgcacggc ggcctacctc cacaccacaa 720
ccaccttcac ctggatgtgc agccccttc tggtgacctc gatcaccctc tgggtgtacg 780
tgtacgtgga cccaaacaat gtgctggacg ccgagaaggc ctttgtgtct gtgtccttgg 840
ttaatatctt aagacttccc ctcaacatgc tgccccagnt aatcagcaac ctgactcaag 900
ccagtgtgtc tctgaaacgg atccagcaat tcctgagcca agaggaactt gacccccaga 960
gtgtggaaag aaagacatct tcccaggcta tgcataccat acacagtggg acctttacc 1019

<210> 248
<211> 1500
<212> DNA
<213> Homo sapiens

<220>

<221> misc feature
<222> (999)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1065)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1280)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1343)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1400)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1463)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1496)
<223> n equals a,t,g, or c

<400> 248
tcggacatcc tggccgccta caggctgcag cgggagcgcg acttcgaaga cccctactcc 60
gggggggtcgt ccggctccgc cgccctcgcc acccctgtcg cccccggacc caccgcccc 120
ccgcgccacg gctctcccc acaccgcctt attcgggtcg agaccccggg gcccccggcg 180
ccgcctgctg atgagcggat ctccggaccc ccgcccagca gcgataggct agctatccta 240
gaagactatg cggacccggt tgatgttcag gagactggcg aaggctcagc aggagcttca 300
ggagccccag agaagggtccc tgaaaatgat ggctacatgg agccctatga ggctcaaaag 360
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acaccctatg agccagagga ggatggggcc accccggaag gtgagggggc cccctggccc 480
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tgaagtgtc ccgaaccaag gaacacaaat atgtgctggg ccagaacagc ccgcccttca 780
gcagcgtccc tgaatttgtg caccactatg ccagccgcaa gctacccatt aagggagccg 840
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tgggaagcag ccggttttn ggggggttg ggagaggaag gggaggggtt cgggcaaagg 1440
ggactttgca atccccaaag cgncccggtt cgggccaag gaattaatta aaccgntctt 1500

<210> 249

<211> 2301

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2297)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2298)

<223> n equals a,t,g, or c

<400> 249

tcgaccacg cgtccgggca gtctccagct aggcccttcc gcccccgccc tgggcgcgc 60
cgtgctcatg ctgccgtgac aacaggccac cacatacctc aacctgggga actgtatttt 120
taaattgaaga gctatttata tatattattt ttttttaaga aaggaggaaa agaaaccaa 180
agtttttttt aagaaaaaaa atccttcaag ggagctgctt ggaagtggcc tccccagggtg 240
cctttggaga gaactgttgc gtgcttgagt ctgtgagcca gtgtctgcct ataggagggg 300
gagctgttag ggggtagacc tagccaagga gaagtgggag acgtttggct agcacccag 360
gaagatgtga gagggagcaa gcaaggtag caactgtgaa cagagagggtc gggatttgcc 420
ctggggggagg aagagaggcc aagttcagag ctctctgtct cccccagcca gacacctga 480
tccctggctc ctctattact caggggcatt catgcctgga cttaaacaat actatgttat 540
cttttctttt atttttctaa tgaggtcctg ggcagagagt gaaaaggcct ctcttgattc 600
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ggaactccag gtcttttatt actgccttct tttcaaaagc acaactctcc tctaaccctc 1020
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agaagcagcc tcatggctct atgcttaatc ttgtctctct tctcttcttt atgatgttca 1980
ctttaaaaaa acaaaaaccc ctgagctgga ctggttgagca ggcctgtctc tcctattaag 2040
taaaaaataa tagtagtagt atgtttgtaa gctattctga cagaaaagac aaagggttact 2100
aattgtatga tagtggtttt atatggaaga atgtacagct tatggacaaa tgtacacctt 2160
tttgttactt taataaaaaa gtagtaggat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2220
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2280
aaaaaaaaag gggggcncc c 2301
```

<210> 250

<211> 2117

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (61)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (63)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (793)

<223> n equals a,t,g, or c

<400> 250

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nrnawgctcg ggccggcagg gtttccccgc acgctggcgc ccasmtcccg gcgcggaggc 120
crtgtaagtt tcgctttcca ttcagtggaa aacgaaagct gggcggggtg ccacgagcgc 180
ggggccagac caaggcgggc ccggagcgga acttcggtcc cagctcggtc cccggctcag 240
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<210> 251

<211> 1446

<212> DNA

<213> Homo sapiens

<400> 251

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<210> 252

<211> 2050

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (596)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1899)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1922)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (1944)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (2012)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2042)

<223> n equals a,t,g, or c

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<210> 253

<211> 2529

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2523)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2529)

<223> n equals a,t,g, or c

<400> 253

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<210> 254

<211> 1678

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1676)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1678)

<223> n equals a,t,g, or c

<400> 254

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<210> 255

<211> 966

<212> DNA

<213> Homo sapiens

<400> 255

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<210> 256
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<212> DNA
<213> Homo sapiens

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<221> misc feature
<222> (3040)
<223> n equals a,t,g, or c

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<210> 257

<211> 2952

<212> DNA

<213> Homo sapiens

<400> 257

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tcatactaca tgagaggggg ttatttctcc agcagccatg aaggtttttc atatgaaaaa 60
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gaccagatg ccctcttctc catggctttc ccggataacc agcgtccgtt cctgaaggca 480
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aaaaaaaaaa aa 2952

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<210> 258

<211> 2217

<212> DNA

<213> Homo sapiens

<400> 258

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ctactgggca aatacactta ctgtgttcta gaggcagccc tttcttatgc agaaaatata 180
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gttcaacttt acaaaatttc ttggaaaact ggcagtattt tgaactgcat cttctttggg 360
accggaacct gcagaaacag tgtgagaaat taagtctctg ttcactgcgc agtagcaaaag 420
atgggtcaag ccattgaaaa agcagaaatt taccaagaaa gctgataccc atgtatagtt 480
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aacatggggg ttgattagtg accacagtta tcagaagcag agaaatgtaa ttccatattt 600
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ttttgataac attgaaagat agtattttac catctttaat catcttgga aatacaagtc 780
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tggaacagat tcagcaacgc ctgatagctt ctttggcctt atgttaaata aaaagacctg 2160
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<210> 259

<211> 1240

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1240)

<223> n equals a,t,g, or c

<400> 259

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atccccgctg acccgatcaa cctgtacgcc aacgccgccg acatcgacta tatagcaggc 120
accaacaaca tggacggcca catcttcgcc agcatcgaca tgcctgccat caacaagggc 180
aacaagaaag tcacggagga ggacttctac aagctgggtc gtgagttcac aatcaccaaag 240
gggctcagag gcgccaagac gacctttgat gtctacacyg agtcctgggc ccaggaccca 300
tcccaggaga ataagaagaa gactgtgggt gactttgaga ccgatgtcct cttcctgggtg 360
cccaccgaga ttgccctagc ccagcacaga gccaatgcca agagtgccaa gacctacgcc 420
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<210> 260

<211> 610

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature
<222> (559)
<223> n equals a,t,g, or c

<400> 260
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ggagtcgggc gcagacctgc cctacctgcc ctccaactgg gccaacaccg cctcctcact 240
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gcacaagttc tctgccggca cctaccgcg cctggaggag taccgccggg gcatcttagg 360
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ctcatctgca gcttccacag agtgccaagc cctcactca gcccatccct gggctctgct 480
ccggggcccc aagaccagag aggaggagcg ttctgcctgc cccytcccac ctyccctgca 540
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aagggcggcc 610

<210> 261
<211> 2116
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (16)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (35)
<223> n equals a,t,g, or c

<400> 261
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ccggaattcc cgggtcgacc cacgcgtccg aaatgaatag atgggccagc tggaaagggt 120
accacagct aagggccatc ttattgaacc cccaagaagt caaatgtagt catccctaac 180


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caaccacagg gcacttgtgc gcgcgcacac acacacacac acacaaatat gcaaatactc 240
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aaccacatth gggaatctaa gtatttgttc tcagtatacc aatgacatat tctttctggc 360
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<210> 262

<211> 1557

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1347)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1527)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1533)

<223> n equals a,t,g, or c

<400> 262

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<210> 263

<211> 1654

<212> DNA

<213> Homo sapiens

<400> 263

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<210> 264

<211> 1168

<212> DNA

<213> Homo sapiens

<400> 264

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<210> 265
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 <212> DNA
 <213> Homo sapiens

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 tctcaaaagc ttgtctctata atacaatatg taaaaagtgt ttacagtgtg gtaaccgtag 240
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<210> 266
 <211> 414
 <212> DNA
 <213> Homo sapiens

<400> 266
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<210> 267
<211> 1452
<212> DNA
<213> Homo sapiens

<400> 267
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gcaggtggat ca 1452

<210> 268
<211> 3059
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (432)
<223> n equals a,t,g, or c

<400> 268
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<210> 269

<211> 764

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature
<222> (625)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (739)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (747)
<223> n equals a,t,g, or c

<400> 269
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<210> 270
<211> 532
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (467)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (513)
<223> n equals a,t,g, or c

<400> 270
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gaagccacga tcgtcgtcat gctcgtgggt aacaaaatga cctyagccag gcccgggaag 420
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<210> 271

<211> 1397

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (109)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1242)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1378)

<223> n equals a,t,g, or c

<400> 271

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<210> 272

<211> 527

<212> DNA

<213> Homo sapiens

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<221> misc feature

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<220>

<221> misc feature

<222> (501)

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<220>

<221> misc feature

<222> (507)

<223> n equals a,t,g, or c

<400> 272

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tcaacgtcaa cgccaagccc ttcgtgcccc acgtccacgc cgcggagtcc gtgccgtcct 480
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<210> 273

<211> 805

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (792)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (794)

<223> n equals a,t,g, or c

<400> 273

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<210> 274

<211> 1953

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (196)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (522)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (524)

<223> n equals a,t,g, or c

<400> 274

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<210> 275

<211> 2376

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (86)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (275)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1965)

<223> n equals a,t,g, or c

<400> 275

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<210> 276

<211> 2439

<212> DNA

<213> Homo sapiens

<400> 276

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<210> 277

<211> 1889

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1076)

<223> n equals a,t,g, or c

<400> 277

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<210> 278

<211> 636

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (608)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (632)

<223> n equals a,t,g, or c

<400> 278

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636

<210> 279

<211> 2861

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2861)

<223> n equals a,t,g, or c

<400> 279

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<210> 280

<211> 1506

<212> DNA

<213> Homo sapiens

<400> 280

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catctgacgc cgtgtttgtg gatgtgatc acacagattc ttctccata gttccttccc 720
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aaaaag 1506

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<210> 281

<211> 1693

<212> DNA

<213> Homo sapiens

<400> 281

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gacttccgga ctgctcctgg ccgcaggggg cgccgcgcgc gcacagagag gcctgggcgg 60

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ggcggaccgg cgctgggcag ccaggacagc cgcggtagcc ggggccgag ggcagcagcc 120
ggcctctccc actgcagccc tcccgcgccg ctaccgtccg gcgcgatggc ggggagtagc 180
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gagcgcgcgg gcaccctgca gcgcgagctg gaccacgaga ggaagctgag ggagaccgct 300
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gataacaatc agtgtggatt tccactcttt tcagtccttc atgttaaaga tttagacacc 1560
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tgatatggaa taaaatgcac attgtaggac attttctaaa aaaaaaaaaa aagggsggcc 1680
gcycatagrgg att 1693

```

<210> 282

<211> 1223

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1159)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1196)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1208)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1223)

<223> n equals a,t,g, or c

<400> 282

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acaaggcgga tgtggccatg agcaagattg agcacttcat gcctttgctg gtacagcggg 180
aggaggaagg cgccctggcc ccgctgctga gccacggcca ggccacttc ctatggatca 240
aacacagcaa cctctacttg gtggccacca catcgaagaa tgccaatgcc tccctggtgt 300
actccttcct gtataagaca atagaggat tctgcgaata cttcaaggag ctggaggagg 360
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gcttcccgcga gascaccgac agcaagatcc tgcaggagta catcactcag cagagcaaca 480
agctggagac gggcaagtca cgggtgccac ccactgtcac caacgctgtg tcctggcgct 540
ccgagggtat caagtataag aagaacgagg tcttcattga tgtcatagag tctgtcaacc 600
tgctggtcaa tgccaacggc agcgtccttc tgagcgaat cgtcgggtacc atcaagctca 660
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gtgatttggg gtaattaatc ttttcccggg ggggcaagga gtaattggat gcgagcccat 1140
ttgggcttcc ccatgtggna aaaggaaaag ttggaagggc gggcccccat cgggtncat 1200
ttgagatncc ctatttaacg ttn 1223
```

<210> 283

<211> 490

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<400> 283

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ttttgagagg tatgattctt tctagagatt ttttctcatg gctactatta gatcaggaat 120
gggtgattgg agattattag attctagggt aacttctacc actttaccct aatacataaa 180
acttttccct aaataaatga tggaaggaaat aatacttgggt tacctggcat tatttttcag 240
taagaaaaaa gctttactaa ccactacatt tatggaaatt tgtaggggta agtattttat 300
aggtcataaa aaacaccata atataacgaa tctcattttc tttaaatgtg aattaaatcc 360
taacagtcac ttttataaaa tgaccatagg ctaaaatctt acgtgtaagt actactacaa 420
taaataatth ctgaaacctt taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 480
gggggggggc 490
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<210> 284

<211> 3009

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (412)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (548)

<223> n equals a,t,g, or c

<400> 284

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aaaaaacaaa aaaaaaacca cacacacaca taaaaaaccc aacaggtcaa aataaaagtt 60
gaacttgagt tacatttaat ttaaatataa atgcattttg agaaatgtta agaacaattt 120
agtcaatcgt tcatctgtca ttggtactgt aaaataagct gtggtctatt tccactgttt 180
aattttctac tcagttctac caaataggat gtcattgttg acatttttga tagtgacttt 240
ggggtctkct tcaactgaaag caccttagaa ctgtactata agaaaacatt tcccctatgt 300
ataattatat gaatgtgatg tttattgctt attaatattat aattcagtc tttctctatat 360
aggacttctt aaaatttaga agggaaatct agctacttca aattgtctgt tnaaatttat 420
tatgcccaaa tcaacctctg aaaaaagggt tttccaggaa gatttacatt taggtttaat 480
atttttttta gttaggtaga gttttaaaaa atacttgagc ctgtccgtga taaagctata 540
aaattcanta actttttaga atgttaaatg aagacactgt ttcctaacat cagttagata 600
catctttgaa tttaaacatt catatttact gagtacctac taggtaccaaa gtactctttt 660
aggcactgga aatacagtga tggacaaaac aggtaaaaaa tcgctgcccc ctgagagctg 720
acattctggg gtgggaattt cattttgcc aactactaacg ttctgcacaa aagacaggct 780
agactcttgt ctagattgtt taaaagaaac ttttcaaatt gggtacatta attttagttt 840
attttcacaa gtaaaaatgg ctttttattt agattctttc tgtcccaggc tgttgatctt 900
aaaactagtt gatttaaaga gtttttttgc acaacatttc aattatattt gtgaacttag 960
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tccaggaaac actatatttt ttccaaaaaa tatgtgatta tatatgttaa agtatagata 1200
acatttcaca cttggataca tatgtgcatt tactgtattt cttggtaagc atatttttgg 1260
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aagtagcact gaaaaattac tcattcaa atccccctggg cacgtaaggc aaaatattgc 1500
cggttgggat ttcaaggcca gtgacgacgc atttcctccc agtacagacc ccccagcccc 1560
ccttgctgga catggggagg cagagagtca cttgaccatc cagaaataca tgactacaag 1620
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ctccagaact aaacaagtcc ctaagtttcc ttattttaat ttactgtgac tagatttgaa 1740
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tccttagcac tgacgggtta acagaaatgc tttggtaata cctacttagt taattggagg 1920
aagtagtaaa taaacattag gtaatctgca gattacttca aatgggaaaa atctttttgt 1980
agactctata gtacctctc tattcactag cttctgaaaa gggaggagta tttttagttt 2040
gacaatttaa taattaaaaa acaagacatc tccaggtagg aaaaaatgaa agctatttca 2100
tgcaaacatt atctaattta gcttaaaagt gaaagtggtt atactgttgg tttctgtaaa 2160
tgttgcaggg ttttaaaact tataattact ttaatatatt tgataactag aaatctagta 2220
ttgccataaa ggaaactaag tgcccatcaa agatttggtt ggtataaata aagaattatt 2280
tgttttgttt tcaatgacag taagctacaa atcatgatgc ttaaaaactt tctaaagatg 2340
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gaaagcaaca cagccttaaa ctcaatgctt ttgctttatg acatgggaat gttctgtcat 2520
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agttctctc 3009

```

<210> 285

<211> 876

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (740)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (760)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (813)

<223> n equals a,t,g, or c

<400> 285

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agccctacaa atgtgaggtc tgcagcaagg ctttctccca gagctctgac ctcatcaaac 180
accagcgac ccacactggc gagcgccctt acaaatgtcc ccgttgcggc aaggccttcg 240
ccgacagctc ttacctgctt cgccaccagc gcactcactc tggccagaag ccctacaagt 300
gccacattg tggcaaggcc ttcgcgaca gytctacct cctgcgacac cagcgacccc 360
acagccacga gcggccctac agctgcaccg agtgcggcaa gtgctatagc cagaactcgt 420
ccctgcgcag catcagaggg tgcacaccgg tcagaggccc ttcagctgtg gcatctgcgg 480
caagagcttc tcccagcggg cggcccttat ccccatgcc cgcagccacg cccgggagaa 540
gcccttcaag tgccctgagt gcggcaagcg ctttggccag agctcgggtc tggccatcca 600
cgcccgacac cacttgccag gycgcaccta cagctgcccc gactgcggca agaccttcaa 660
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tggcgccgtg tgcgcagagn gggctttctg ccgctgcctn ccacgcttcc tggcagcatt 780
caccgggttc cacagtgggc ggagcgggcc ttnacaagtg gcgatggatt gcgggaaagg 840
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<210> 286

<211> 861
<212> DNA
<213> Homo sapiens

<400> 286
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cagccctggc aggcggctct gtaccatttc agcactttcc agtgtggggg catcctgggtg 180
caccgccagt gggtgctcac agctgctcat tgcacagcg acaattacca gctctgggtg 240
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ggcaccacca ataagccttc tgtcgccgtc agagtgtgtg cttatgtgaa gtggatcgag 780
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atgtgcatcc aaaaaaaaaa a 861

<210> 287
<211> 1068
<212> DNA
<213> Homo sapiens

<400> 287
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gatggcggcg cgatctgtgt cgggcattac cagaagagtc ttcattgtga cagtctcagg 120
gacaccatgt agagaatttt ggtctcgatt cagaaaagag aaagagccag tggttgttga 180
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tctggctcat ttagctgatg acttgggtca tgtagtccct aactccagac tccaccagat 420
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aattcgaag agaaacacat tgaaatcact gtctttccct gagcaagggg gctgctcatt 600
agatcttttg atactttacc atgtgaaata ctaccagaac tgttctctaa acccactttt 660
tctgtagagg aatgtatcat cttttttttt ctcatattac aaatggacaa ataacggact 720
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agttttgaga gggcactgtc aacttgggtt taagacagga ggacattgca agttcacacc 840
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<210> 288
<211> 2256
<212> DNA
<213> Homo sapiens

<220>

<221> misc feature

<222> (42)

<223> n equals a,t,g, or c

<400> 288

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tgtgcttggt gaatctaccc ccaacccaaa cccaggctgt cnatcgcccc tcaacccttc 60
ttccaaacta cgtgctgaag cegttcttcc ccaacctgtt tcccccccca gagtccctggt 120
tcggctcctg gctgccaatc tgcttattgc tcctcacatg ggtcaactgt tccagtgtgc 180
ggtgggccac ccgggttcaa gacatcttca cagctgggaa gtccttgcc ttggccctga 240
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ccgtcgctgt gacttttggg gagaagctcc taggagtcac ggccctggatc atgcccattt 600
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gctgcacccc aatcccagcc ctgctcttca catgcatctc caccctgctg atgctggcca 780
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<210> 289

<211> 331

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature
<222> (273)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (279)
<223> n equals a,t,g, or c

<400> 289
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ccaaaagtat ttatccgat gatcttagca tttatccgaa gagtatctat cccaaggata 120
gcatttatcc caagagcatt tacccaagag ctttttccc aagactatct atcccaaaga 180
tttttagcatt tatcccaaga gcatttacc aagagcattt atcccaaaga attttgtttt 240
gttttgtttt gtttttttga gacagagtct ttntctgtna cccaggctgg agtgagccga 300
gatcgtgccc actgcacttc cagtctgggc g 331

<210> 290
<211> 705
<212> DNA
<213> Homo sapiens

<400> 290
aatatcacca aactgattgt aaatgtgcgg ctgtagcaga ctttttagtg tgggtggtgtg 60
cagccatttc ggccctacac ctgccagcct ggctacctta cagttgtgtt ccgatttttg 120
cgtctatgct tgggtgtgct cacttgctgc attttccagc atgcaaccag gatttgacgt 180
aggaaaaagg gatgctttct tactttggaa gctctcaggg aagttggtgt caatttctcc 240
tccactgcct ggcctaccct gcactcccaa agattttgtg cagatgggta gttccatttt 300
ttaaaaaattg tgcagatatg gaaaattgtg acttacttca tgaccagaac tatctagaat 360
atgtgtgggg gtataaacat cttgcttaac caaatatcta ttaggcaga ggtaaccagg 420
agagaagcaa gacttgctgc cttaaaggagc ccaccatttt acttttcaca tttaatctgc 480
cacgttgaat caattggaat aaaacctgac tcgcagggtga ctggacagga aatcccaaag 540
ttccaccatt tctatgctta attttaacgt cccccgctt tttttttgt agaaaataaa 600
aacaagaaaa tcgttccaat gtaagatgtt tgttatagaa actttaggca atacaggtgt 660
gtaataaaat gtttaataaa cttctaaaca cttttgtatt tggat 705

<210> 291
<211> 952
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (827)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (943)
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (948)

<223> n equals a,t,g, or c

<400> 291

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aaggctaattg aaattgcatt ccaggtaggg gttaacgtca aatttccatg gctggtagct 60
gtgcttttgg catatcacag tggtgtgtca ctactacaag gtaaagcatc tacagcggag 120
aatgagcttg aaaatgagag acctattgwg aataaatatg cccatgagag catatttaaat 180
aagcctctat aacatgcagc caaaccagac attcactcct gcagagaaat gttgccctgg 240
agaaaaagaa atatataaag ataggctatc acccttcttt tgctgcagta ctaagcatag 300
caagaaatta gaatcattta cattggaaat ttgaaaattc cttttatata cacaacttta 360
ctgtgtataa ataaaaaata tttattaatg cagtgtatgc cgtcagttgt tttaggaatg 420
gcttctgcaa ttagaaaaat agcttgctag aatgtaaatg ttctgttact ggtaaatgta 480
ctgcacacat tcattggacg ttaaaacaag tgagtagcct tttttacctg ccagcagcat 540
ggctgtgtgc agccactagg ctgaggacaa taaattacca aaaattataa tgtaccgagc 600
tgaaaatgct cagtacatta tgtggcatat tctggatgtg atgagaaatc tcattgccat 660
ttgggacact gacatcccag aagtaatcca caactgcttt gcaaaagcaa agtgactgct 720
cagatgaaca gagcagagta ctactcact atggtggcat cagctgcaaa gcgaaaatga 780
actgtcccat gatcatgttg atggttttct agatactgcc aacatgnnta ggctcttttc 840
tgatgtctga tggagttttc aaacacggaa cagacaccct tgatgtgggg ttttgctaag 900
gaacatrgga ggaacgggag gaaagtgtgc ccgggttcac acntcccnngg gg 952
```

<210> 292

<211> 604

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (557)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (580)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (582)

<223> n equals a,t,g, or c

<400> 292

```
ggcagagtga aagaaggatg tktttgcttc tccttctgcc atgattgtaa cattcccaga 60
acctggaggc caggctatga cacagagtca atcaataacc agggagatct gtgaatatag 120
cccagtaggt ggggccttgc tgccatctgc catatgaccc ttccagtccc aggccttctga 180
agagacgtgg taagtgcggt gcagttttca actgacctct ggacgcagaa cttcagccat 240
gaaggtaaca ggcattcttc ttctcagtgc cttggccctg ttgagtctat ctggtaacac 300
tgagagctgac tccctgggaa gagaggccaa atgttacaat gaacttaatg gatgcaccaa 360
gatatatgac cctgtctgtg ggactgatgg aaatacttat cccaatgaat gcgtgttatg 420
```



```

ttttgaaaat cggaaacgcc agacttctat cctcattcaa aaatctgggc cttgctgaga 480
accaagggttt tgaaatccca tcaggtcacc gcgaggcctg actggcctta ttgttgaata 540
aatgtatctg aatatcnaaa aaaaaaaaaa aggcggccgn tntaaaagga tccagcttta 600
cgta 604

```

```

<210> 293
<211> 510
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (480)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (491)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (508)
<223> n equals a,t,g, or c

```

```

<400> 293
gtgtcccaa actcctggag tttccacccc tgagctgtta aaaacctgcc ctgcctgtca 60
cccatttctg tgccaccagc ccaccccctg cctccactct cctccctgcc accttctgtc 120
cctgccatag gaatatgggg acaccgtgta caccattgaa gttccctttc acggcaagac 180
gtttatcctg aagggtgagt aggggagcgg gtgtcctgga gccccagaca gcacaggagg 240
ctccaggaag gtgccgagg gcccctctggt gggtgccccc caccaagagg gaagggttg 300
tctgcccag cccatctggc accaccagc cctctgccgc cctgtcccag accttctgtc 360
cctgtcctgc ggagctcgtg taccaggagg tgatcctgca gcccagagg atkgtkctkt 420
ggaaaagaca gtgactgcct gccagatcct gcagcgagt gaagacaaca ccctcatctn 480
ctatgacgtg nctgcagggg cttgcggncc 510

```

```

<210> 294
<211> 845
<212> DNA
<213> Homo sapiens

```

```

<400> 294
aattcggcag agctgacctg acaagccacc tcaagtggac aaggcactta ccaacagaga 60
ttgctgattt gtcctttaag caagagattc actgccgcta agcatggctc agaccaactc 120
gttcttcatg ctgactctct ccctgatgtt cctgtctctg agccaaggcc aggagtccca 180
gacagagctg cctaattccc gaatcagctg cccagaaggc accaatgcct atcgctccta 240
ctgtacttac tttaatgaag accctgagac ctgggttgat gcagatctct attgccagaa 300
catgaattca ggcaacctgg tgtctgtgct caccaggcgg gaggggtgcct tcgtggcctc 360
actgattaag gagagtagca ctgatgacag caatgtctgg attggcctcc atgacccaaa 420
aaagaaccgc cgctggcact ggagtagtgg gtccctggtc tcctacaagt cctgggacac 480
tggatccccg agcagtgcta atgctggcta ctgtgcaagc ctgacttcat gctcaggatt 540

```

```

caagaaatgg aaggatgaat cttgtgagaa gaagttctcc tttgtttgca agttcaaaaa 600
ctagagggaag ctgaaaaatg gatgtctaga actggtcctg caattactat gaagtcaaaa 660
attaaactag actatgtctc caactcagtt cagaccatct cctccctaata gagtttgcat 720
cgctgatctt cagtaccttc acctgtctca gtctctagag ccctgaaaaa taaaaacaaa 780
cttattttta aaaaaaaaaa aaaaaggggg gcgctctaaa gatccaagct tacttcgcgt 840
gcatg 845

```

<210> 295

<211> 1046

<212> DNA

<213> Homo sapiens

<400> 295

```

ctgcaggccc cgggccgga ttcccgggga agaagaggaa gaagaagagg acagccaggc 60
tgaagtcctg aaggatcatca ggcagtctgc tgggcaaaag acaacctgtg gccagggctc 120
ggaagggccc tgggagcgcc caccctctct ggatgagtc gagagagatg gaggtctga 180
ggaccaagtg gaagaccag cactaagtga gcctggggag gaacctcagc gcccttcccc 240
ctctgagcct ggcacatagg caccagcct gcctctccca ggaggaagtg gaggggacat 300
cgctgttccc cagaaacca ctctatctc accctgtttt gtgctcttcc cctcgccctg 360
tagggctgcg gcttctgact tctagaagac taaggctggt ctgtgtttgc ttgtttgccc 420
acctttggct gataccaga gaacctgggc acttgctgcc tgatgcccac ccctgccagt 480
cattcctcca ttcaccagc gggaggtggg atgtgagaca gcccacattg gaaaatccag 540
aaaaccggga acagggattt gcccttcaca attctactcc ccagatcctc tcccctggac 600
acaggagacc cacagggcag gaccctaaga tctggggaaa ggaggtcctg agaaccttga 660
ggtaccctta gatccttttc taccacttt cctatggagg attccaagtc accacttctc 720
tcaccggctt ctaccagggt ccaggactaa ggcgtttttc tccatagcct caacattttg 780
ggaatcttcc cttaatcacc cttgctctc ctgggtgcct ggaagatgga ctggcagaga 840
cctctttgtt gcgttttgtg ctttgatgcc aggaatgccg cctagtattat gtycccgggt 900
gggcacacag cggggggcgc caggttttcc ttgtcccca gctgctctgc cccttcccc 960
ttcttcctg actccaggcc tgaaccctc ccgtgctgta ataaatcttt gtaataaaaa 1020
aaaaaaaaa aaaaaaaaaa aaaaaa 1046

```

<210> 296

<211> 1916

<212> DNA

<213> Homo sapiens

<400> 296

```

cggacgcgtg ggcgaacaga cgggtgcccta tggactgtcc aactacagag gaagcttccg 60
gggcaagagg tctgcggggc cacttccagg gaatctgcag ctctcacatc ggccacactt 120
gcgctgcgct tgtgtgggga gatatgacaa ggcctgcctg cacttttgca cccaaactct 180
ggacgtcagc agtaattcaa ggacggcaga aaaaacagac aaagaagagg aagggaaggt 240
tgaagtcaag gaccaacaaa gcaagcaggc ttttagacct caccatccaa agctcatgcc 300
cggcagtgga ctgcacctc ctccatctac ctgccccgc tgcctctttc aggaaggagc 360
cccttaggag gacaggcctg cagcatcctg gtctcgggag gcttctgtca ttgtcacac 420
accttcaga tttccacctc tttatagaca agaagtgaat ttgcctgggg cagaacaccc 480
acccaaagag tttccactta acaatacccc cccccacggc aagaatgccc aaatccgaat 540
gacccagtt ttcctaata gtaaaatgat cccagatgtg ccccagagca tgacgcctgc 600
agytccggtt tcatgcagga aattgggttt ggagagtgtt ggcaagtgg aaagccactt 660
actggctttt gacatgactt ctcttgga gaataagtgac tccaagctaa ctctttgcaa 720
atgtaaacac atgtccatct tgtaataaat gcaaaatgcc cgtgcagcag aagcatgcga 780

```

```
ctttcatatc cttgcctaga ataggctgca tgggtgatgt cagtgaagggc cacgaggcgt 840
cggcttttaga cacagatcat agctctwyag gagtttatga atttgaagct tatgggattt 900
tggcagagaa attttcagct gtgcttgata cccaccaaaa gaatgtatct cgaaagaatg 960
aaggaagaag aaaaaagat ccttgatgtt tgtgacaaga aaatgagaaa gttagtatct 1020
gcaatacaga gcttgttcct gttcagtga cagccctctg tattctgtat agacaccagg 1080
ccgatacaca gtggagttcc caggccttgt ttgcaggaag ccgactgtaa agacagcccc 1140
agctcaaggc tattaggttg aatatttgct ttcattgagta aatgtggatc tttggggaat 1200
ggcttcaaaa taagtcacga acacaaattc tttgtaaatt atgtaaattc ctgtttatat 1260
aaattggcaa caacttatac cgtctgacag ttcaaaatct ctttcagctg cgctcttccc 1320
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aggggagggc tgcccatctc cccaacccag tcacagagag ataggaaacg gcatttgagt 1440
gggtgtccag ggccccgtag agagacattt aagatgggtg atgacagagc attggccttg 1500
accaaagtgt aaatcctctg tgtgtatttc ataagttatt acagggtataa aagtgtgac 1560
ctatcatgag gaaatgaaag tggctgattt gctggtagga ttttgtacag tttagagaag 1620
cgattattta ttgtgaaact gttctccact ccaactcctt tatgtggatc tgttcaaagt 1680
agtcactgta tatacgtata gagaggtaga taggtaggta gattttaaat tgcattctga 1740
atacaaaact atactcctta gagcttgaat tacattttta aaatgcatat gtgctgtttg 1800
gcaccgtggc aagatggtat cagagagaaa cccatcaatt gctcaaatat tcagaaagta 1860
ctgtcaaaag cctaataaaa aacctaagat ttgctctgaa aaaaaaaaaa aaaaaa 1916
```

<210> 297

<211> 1476

<212> DNA

<213> Homo sapiens

<400> 297

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gggattctcc tgtcttagcc tcctgagtag ctgtgattac aggcattgcgc caccatgcct 60
ggctaatttc atatttttta gtagagacag gatttctcca tgttggtcag gctggtcttg 120
aactcctgac ctcaggtgat ctgcccact ckgcctmcta aaktgctggg attacaggca 180
tgagccactg cacctggccg gttattctst stttacagat agctatagac atcatttttag 240
gaagtgttgc agtctggcat ttgtgctatt gttcattctc tgtgaaggct gttcatagtt 300
gctatagcct gtgttttagt ttgtgatttc atcaatccca tctttctgtg tgagtaaatgc 360
attctaaaca tcctacccca ctttagaaac ggacgtgggg aacgcttggg catttaagcc 420
aacaataaat ttaggtgaat gtccctaagt gtttastgtt tttatccagt caaggatttg 480
cttttccttg aacatttgtt ttaaattctg gggccaaaat gcaaaggaga agttctattc 540
aaaggcagta gttgaaatct attattttag ttagcctact tggcatttac tacatcgggtc 600
acttctccag gctgccctaa attagggtga tggagtgaaga catgccaaac atccaccttt 660
gggaccatag catagttaaa attaaatgta gttggaatag ctagcattgc agctacagta 720
gggaactgta gtctagttcc ctacagaaaa cccaagggrgt gaaggagacag gattttgcct 780
aggcaaaaat ctaagactcg tgccctcctg gtacatgggg ttttaagact gaatgtgtaa 840
taggagcact gcctttgcca aatcaaatga gtgacagggt aactagaaaa tgtgacaatc 900
acatttcctc ttagctcaaa taattctgtt tttccaaagc ttttagcagct taattaaatc 960
tgttggactg ggggaggaga gagctgttct ctagtgggtt acatgggtatt ctttaagaag 1020
aaaaaaciaa gccaaagaaa actcattatc tggcatgttc gccttaaaga tggtagtggc 1080
tagaattctg agttttcatc tcttttcaaa gctgcataat tctyatatct ggtattggcc 1140
tctaagtcct atattgcagt tggaattctt gctgtattat tttttaagca agtgttaggt 1200
gcattttaact gctttcttca tccatgacga cattcccacc atgggggtct tgacaaagca 1260
gagtaaaaat atgctgttta cattgtttac ttacaagtaa ggagcctgaa ataacctgta 1320
gtttcgaatg caggccctga tttactggcg ttgtcagttt caattatgaa actgaagttt 1380
gggtgcctcct ctttatcatg ttttttccct tgtagcagtt gtgtttaatg tcattaaaaa 1440
gaaataaaaag ttctttgtca gtgaaaaaaa aaaaaa 1476
```

<210> 298
<211> 541
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (175)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (178)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (249)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (506)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (524)
<223> n equals a,t,g, or c

<400> 298
tgcaggtacc ggtccggaat tcccgggtcg acccacgcgt ccgatttcaa aagctaatac 60
tataatacat ttccataaaa atgatgtttt aagggtaaaa gaaaagaagt aagctatttt 120
cctagataaa gctgcccagt ctaacaagac ataaaacatg tttttcggcc taggnntntt 180
atcaatttag agtggtaatg ctgggtcaga tgttttgatt aattaatctt tgattaataa 240
gtataagana gctaattatt agaagagaag gtgtttttat aaacatcatc tttcaaaatt 300
cgagatttat ggggaataaa ttaggagaag gtgggttaaac ctcttcaaca ataaattgct 360
ctttggggac attttatgca cagaactgtg caccctcctc agaacagcag gtctttaatg 420
gcccattgtg tgagaagggc cccatcaagg cagcaggaat gggccactct cccacacccc 480
atggggccagg ccaactgccac tcctgntgcc ctgcatcccc aggnnttatag gctgcatggt 540
a 541

<210> 299
<211> 471
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (437)

<223> n equals a,t,g, or c

<400> 299

```
ctgccccatc cactagacaa aagctgactc tggaaaacat taggcactca gaatcaagg 60
ttctggggtc agatggataa ttgccatcat cctcaccaag ttgccactgg actttcttgc 120
ccctaaatcc actgggcatt tcattgctac ctttcttgac ttcttgattg tttttgtgat 180
actgacacat cccccctttc agaacaccct ctgcccttgg attctgtgca caggaagcta 240
gttgctcccc tgaatacact ctttcttcct tgtaatacag cctctgattt tgagcccaag 300
aataaagact acagttctca gactccttcg caaataaatt ttgtgactaa actctagtca 360
acagtaagtg tcatgtagca gctcctggga atctccttta aaaagagagc ttgtttatac 420
cttattgtca tctctgntct tctgtgcccc ttcttccatt ttggctgcct g 471
```

<210> 300

<211> 942

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (507)

<223> n equals a,t,g, or c

<400> 300

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gtggaacata cctcagagtt atcccacctg cacagggagg gagctgaggt atttaccac 60
ccatccttgt ctcatgtgtc aagggtattt tctgtgcata ggcataggct tcagcagaat 120
tgcaggtagt ggcagtcgga aattggacca gcaaacagaa atgattccta caggggatac 180
aagccaggca caggcagtggt ctgttacttg gggttcctgt tgcttagagt tgaaagcatc 240
ataacccatc ccaggtgatc atagaaggac ctcaaaggaa aagggtgagg gtttggacat 300
ttcctgagaa tccatggggg aaccattcag gggttggggc aggtgtcaac cacaagaaca 360
ttaaacaggc tcttttgga gcaaagttgg gagtgggtgt gaagtaactg ggaaaactcc 420
acagaggctc agcgtccacc tctacctgac accctgccag caacctgggt gatttccgca 480
gggtgtctgaa ccccgatctc tcagtgnat ggccccactg tgaaccaga aatgccacac 540
catggaagcc acacactctg ctgtctcctt ctgtcctcat tcctgtcctt ctcamagtca 600
gtccctcttg gctcttcta gagtcccttt cattccctca tttcccactt cctgccgctg 660
tactgtcacc tgtggccctg gatttgcact cttgggtcaa caccctcaac tccaacacct 720
ctgtctttct gcccattcca ctagacaaaa gctgactctg gaaaacatta ggactcaga 780
atcaagggtt ctggggtcag atggataatt gccatcatcc tcaccaagtt gccactggac 840
tttcttgccc ctaaattccac tgggctttgt ttgcaacttt ctgataattt ataattattt 900
caaaataaaa aaattttaaa aataaaaaaa aaaaaaaaaa at 942
```

<210> 301

<211> 461

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (345)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (363)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (444)
<223> n equals a,t,g, or c

<400> 301
nscakmcgag gstagctgag ggacgcagct agaccttggc gggacggggc ttctgccggg 60
gcccaggccc agggaccagg cggaggcgtc gcgggagcct ttggggcacc acagagatgc 120
gggtttgcct gcaatgagat ttcattctct acatttaaag gacatccttt ctgagctgct 180
gtgaataaat ttggaatggt actgtatatt ttcattctaat ggagaactag ctgtactttg 240
aataaggatt gctgcactgg acgacttttag aacatccctc acaatgtcgt caaccgggag 300
ccagaacccc cacggcctga agcagattgg cctggaccag atctngggac gacctcagag 360
ccnggcattcc agcaggtgtt acacamgggc agagcatggg ccaagttcca gatatatgga 420
gytctaacag taatcctcct ggcntagcgc aggttgattg c 461

<210> 302
<211> 906
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (584)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (627)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (863)
<223> n equals a,t,g, or c

<400> 302
gctgactccc tctggtttcc ggtcaggtcg gtcgggtcccc actatgggcc tggagctgta 60
cctggacctg ctgtcccagc cctgccgcgc tgtttacatc ttgccaaga agaacgacat 120
tcccttcgag ctgcgcacatc tggtatctgat taaaggctcag cacttaagcg atgcctttgc 180
ccagggtgaac cccctcaaga aggtgccagc cttgaaggac ggggacttca ccttgacgga 240
gagtggtggc atcctgctct acctgacgcg caaatataag gtccctgact actggtaccc 300
tcaggacctg caggcccgtg cccgtgtgga tgagtacctg gcatggcagc acacgactct 360

```
gcggagaagc tgcctccggg ccttgtggca taaggatgatg ttccctgttt tcctgggtga 420
gccagtatct cccagacac tggcagccac cctggcagag ttggatgtga ccctgcagtt 480
gctcgaggac aagttcctcc agaacaaggc cttccttact ggtcctcaca tctccttagc 540
tgacctcgta gccatcamgg agctgatgca tcccgtgggt gctnggctgc caagtcttcg 600
aaggccgacc caagctggcc acatggnggc aggcgtggag gcagcagtgg gggaggacct 660
cttccaggag gcccatgagg tcattctgaa ggccaaggac gacttcccac ctgcagacct 720
caccataaag cagaagctga tgccctgggt gctggccatg atccgggtgag ctgggaaacc 780
tcacccttgc accgtcctca agcaagtcca caaaagcatt ttcatttcta atgggccatg 840
ggagccaggc ccagaaaagc acngaattgg cttgcttaag acttgcccaa gttcccagag 900
cacctt                                     906
```

<210> 303

<211> 620

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (125)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (620)

<223> n equals a,t,g, or c

<400> 303

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tggtatgagta cctggcatgg cagcacacga ctctgcggag aagctgcctc cgggccttgt 60
ggcatcccgt gggtgctggc tgccaagtyt tcgaaggccg acccaagctg gccacatggc 120
ggcancgctg ggaggcagca gtgggggagg acctcttcca ggaggcccat gaggtcattc 180
tgaaggccaa ggacttcca cctgcagacc ccaccataaa gcagaagctg atgccctggg 240
tgctggccat gatccggtga gctgggaaac ctcacccttg caccgtcctc agcagtccac 300
aaagcatttt catttcta atggccatggg agccaggccc agaaagcagg aatggcttgc 360
ttaagacttg cccaagtccc agagcacctc acctcccgaa gccaccatcc ccaccctgtc 420
ttccacagcc gcctgaaagc cacaatgaga atgatgcaca ctgaggcctt gtgtccttta 480
atcactgcat ttcattttga ttttggataa taaacctggg ctcagcctga gcctctgctt 540
ctaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 600
aaaaaaaaaa aaaaaaaaaa                                     620
```

<210> 304

<211> 533

<212> DNA

<213> Homo sapiens

<400> 304

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ggcacgagsg gcgggaacac gcggggccca agatggcggc cagccggtac cggcgttttc 60
ttaagctctg tgaggaatgg ccagtggacg agaccaaacg gggccgggac ttgggcgctt 120
acctgcgaca gcgggtagca caggcctttc gggagggaga gaatacccag gttgcagagc 180
ctgaggcctg tgatcagatg tacgagagct tagcgcgact ccattcaaac tactacaaac 240
acaagtaccc tcgccccaga gacaccagct tcagtggcct gtcgttgga gagtacaagc 300
tgatcctgtc cacagacacc ttggaagagc ttaaggaaat agataaaggc atgtggaaga 360
```

aactgcagga gaagtttgcc cccaagggtc ctgaggagga tcataaggcc tgagctcagg 420
ccttacctcg tgcacatacc taggtgtgga gtcttgtaca ttgccatcgt caataaaact 480
gccccagttt ccccttgaaa aaaaaaaaaa aaaaaraaaaa gaaaaaagtc gac 533

<210> 305

<211> 1374

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1232)

<223> n equals a,t,g, or c

<400> 305

aaacaggaaa taaatacgaa tgaaactgag ctctaagcag catgtaacct ggcctgcac 60
caggaaatag aggacttcgg atccttctaa ccctaccacc caactggccc cagtacattc 120
attctctcag gaaaaaaaaa aaggtcccca cagcaaagaa aaggaatagg atcaagagat 180
acgtggctgc tggcagagca agcatgaatt cgatgacttc agcagttccg gtggccaatt 240
ctgtgttggt ggtggcacc cacaatggtt atcctgtgac cccaggaatt atgtctcacg 300
tgccccgtga tccaaacagc cagccgcaag tccacctagt tccctgggaac ccacctagtt 360
tggtgtcgaa tgtgaatggg cagcctgtgc agaaagctct gaaagaaggc aaaaccttgg 420
gggccatcca gatcatcatt ggcctggctc acatcggcct cggctccatc atggcgacgg 480
ttctcgtagg ggaataacctg tctatttcat tctacggagg ctttcccttc tggggaggct 540
tgtggtttat catttcagga tctctctccg tggcagcaga aaatcagcca tattcttatt 600
gcctgctgtc tggcagtttg ggcttgaaca tcgtcagtgc aatctgctct gcagttggag 660
tcatactctt catcacagat ctaagtattc cccaccata tgcctacccc gactattatc 720
cttacgcctg ggggtgtgaac cctggaatgg cgatttctgg cgtgctgctg gtcttctgcc 780
tcctggagtt tggcatcgca tgcgcactct cccactttgg ctgccagttg gtctgctgtc 840
aatcaagcaa tgtgagtgtc atctatccaa acatctatgc agcaaaccce gtgatcacc 900
cagaaccggt gacctacca ccaagttatt ccagttagat ccaagcaaat aagtaaggct 960
acagattctg gaagcatctt tcaactgggac caaaagaagt cctcctccct ttctgggctt 1020
ccataaccce ggtcgttcc tttctgacag ctgaggaaac gtctctccca ctgtttgtac 1080
tctcaccttc attcttcaat tcagtctagg aaacctgct gtttctctat caagaagaag 1140
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gagcttgtgg gttagaggaa caaatatcta gacattcaat cttcactctt tcaattgtgc 1320
attcatttaa taaatagata ctgagcattc aaaaaaaaaa aaaaaaaac tcga 1374

<210> 306

<211> 668

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (558)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (575)

<223> n equals a,t,g, or c

<400> 306

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gcggacgtgg gcaggagggc tggaaaagcc ggcgctggag cgggaacggg agtagctgcc 60
tgggcgccaa aggcgcgggc actcccacgc ggaccccgaa gtccgcaacc cggggatggg 120
cccgcggtcg craggggatc ttctctggat caagcaatgg tggtgaaaaa tgtttcgcaa 180
gggcaaaaaa cgacacagta gtagcagttc ccaaagtagc gaaatcagta ctaagagcaa 240
gtctgtggat tctagccttg ggggtctttc acgatccagc actgtggcca gcctcgacac 300
agattccacc aaaagctcag gacaaagcaa caataattca gatacctgtg cagaatttcg 360
aataaaatat gttggtgcca ttgagaaact gaaactctcc gagggaaaag gccttgaagg 420
gccattagac ctgataaatt atatagacgt tgcccagcaa gatggaaaag tgccctttgt 480
tcctccggag gaagaattta ttatgggagt ttccaagtat ggcataaaaag tattcaacat 540
cagrtcaata tgtaagtnat ataatttatt aaganaacta tgtttttagat aacagggaat 600
tcaggccatt aagagccccc ttataattag ggccactcct gtttgcagag tgattgggtt 660
gtaaacat 668
```

<210> 307

<211> 1046

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (946)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (948)

<223> n equals a,t,g, or c

<400> 307

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cggnacgcgt gggncggacg cgtgggggttt tgaatgttca tgtatgaatg ctgcagctgt 60
gaagcataca taaataaatg aagtaagcca tactgattta atttattgga tgttattttc 120
cctaagacct gaaaatgaac atagtatgct agttattttt cagtgttagc cttttacttt 180
cctcacacaa ttggaatca tataatatag gtactttgtc cctgattaaa taatgtgacg 240
gatagaatgc atcaagtgtt tattatgaaa agagtggaaa agtatatagc ttttagcaaa 300
aggtgtttgc ccattctaag aaatgagcga atatatagaa atagtgtggg catttccttc 360
tgttagggtg agtgtatgtg ttgacatttc tccccatctc tccccactct gttttctccc 420
cattatttga ataaagtgac tgctgaagat gactttgaat ccttatccac ttaatttaat 480
```

```
gtttaaagaa aaacctgtaa tggaaagtra gactccttcc ctaatttcag tttagagcaa 540
cttgaagaag agtagacaaa aaataaaatg cacatagaaa aagagaaaaa gggcacaaaag 600
ggattggccc aatattgatt cttttttata aaacctcctt tggcttagaa ggaatgactc 660
tagctacaat aatacacagt atgtttaagc aggttccctt ggttggtgca ttaaatgtaa 720
tccaccttta ggtatttttag agcacagaac aacactgtgt tgatctagta ggtttctatt 780
tttcctttct ctttacaatg cacataatac tttcctgtat ttatatcata acgtgtatag 840
tgtaaaatgt gaatgacttt ttttgtgaat gaaaatctaa aatctttgta actttttata 900
tctgcttttg tttcaccaaa gaaacctaaa atccttcttt tamwananaa aaaaaaaaaa 960
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1020
aaaaaaaaaa aagggcggcc gtttta 1046
```

<210> 308

<211> 1686

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (39)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (117)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1522)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1551)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1627)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1673)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1686)

<223> n equals a,t,g, or c

<400> 308

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aatgaactct aaatacatat ctttctttca atgttcatat caacaaagct ccaattnaat 120
ggtccctgga aaaaaaaaaa tcgttccatg ttgttcccag gtcccgttca agaagttctt 180
cccagttcga gtcaagatct cgttccagtt ccagagaacg ttcgagatct cgtgggtcga 240
aatcaagatc cagctccagg tccacagggg ctcttcttcc ccacgaaaaa gatcttattc 300
aagttcatca tcttctcctg agaggaacag aaagagaagt cgttctagat cttcttcac 360
tggtgatcgc aaaaaaagac gaacaagatc acggtcaccc gaaagccagg tgattggtga 420
aaacactaaa caacctgag cccagggcc aacctacgga acaccactac tttaccaga 480
cgccacaggt catcatctgg atcatcccat tctgggtccc gttcaagttc aaaaaagaaa 540
taatgtatta aaatttacat cttaaaaaaa tccagtacag tgcataaagc atatttttaa 600
agaagttggt gtcttacttg gtcagaagtg ctaaatctgc tagtagagggt gcatgccttt 660
cattgctttt caaaacaata cagctgtgtt tatttgtgaa gttaaaagta aatagcattt 720
taagccataa tgtcccaaaa tagatgttct gtcattcatt atttacaacc atttgcttca 780
tttaaaacca tttcagctat aacaaagtac tttgcttcct aatttaaacc catttttgtc 840
atttccaaat acatctgtc cattggctaa gacaggatta cctaggcttg cctgaacttt 900
gggcatggaa gaaagactgg aaactagttg gaaacaacat acttatggaa aagaaagtca 960
gcctttttat gctgttaaca gatgtcagag tgattctcac caaaaaaagt taaactatgt 1020
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tcattgtgtc tcttttatcc agctttactt ttttgctcca catttaatgc aaaagaatct 1140
tgtgatgtct acaaggagag aagtgggata tattttcctt tctgacacat aatttggggc 1200
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ccaaatataa tatggtagaa aaggctaaat catacttaat gagcaaattg aagtaagctt 1380
ttaaagtata tttctctttt ggtgaaaggc caatggagac attgtgaatt taagtgaaca 1440
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aatgcttatt gctgcatgat gntaagcaaa agtcwttatt ttycctatcm nttgaaataa 1560
gttatggctt aaaagcyttt ggarttatc tcaaaattaa aatctggtca catgagcttt 1620
aatttgnttt ctggtttaa aaataaaaaa ggttctctta cagtatttcc agngcaatgc 1680
aaggan 1686
```

<210> 309

<211> 1426

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1350)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1391)

<223> n equals a,t,g, or c

<400> 309

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ctggtgagat tgcagcctgc tgccctccct ccacagcca cagctattgg atttcccacc 120
cagaatcttt aggtaaatga gatcatgatt ctggaaggag gtggtgtaat gaatctcaac 180
cccggcaaca acctccttca ccagccgcca gcctggacag acagctactc cacgtgcaat 240
gtttccagtg ggttttttgg aggccagtg catgaaattc atcctcagta ctggaccaag 300
taccaggtgt gggagtggct ccagcacctc ctggacacca accagctgga tgccaattgt 360
atccctttcc aagagttcga catcaacggc gagcaccttt gcagcatgag ttgagaggag 420
ttcaccggg cggcagggag ggcggggcag ctccctctaca gcaacttgca gcatctgaag 480
tggaacggcc agtgacagtag tgacctgttc cagtccacac acaatgtcat tgtcaagact 540
gaacaaactg agccttccat catgaacacc tggaaagacg agaactatct atatgacacc 600
aactatggta gcacagtaga tttgttgtag agcaaaactt tctgccgggc tcagatctcc 660
atgacaacca ccagtcacct tcctgttgag tcacctgata tgaaaaagga gcaagacccc 720
cctgccagtg gccacaccaa aaagcacaac ccgagaggga ctcaattatg ggaattcatc 780
cgcgacatcc tcttgaaccc agacaagaac ccaggattaa taaaatggga agaccgatct 840
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amcaacagca gcatgacctg tgaagagctc agccgagcta tgagatatta ctacaaaaga 960
gaaattcttg agcgtgtgga tggacgaaga ctggtatata aatttgggaa gaatgccga 1020
ggatggagag aaaatgaaaa ctgaagctgc caatactttg gacacaaacc aaaacacaca 1080
ccaaataatc agaaacaaag aactcctgga cgtaaatatt tcaaagacta cttttctctg 1140
atatttatgt accatgaggg gaacaagaaa ctacttctaa cggaagaag aaacactaca 1200
gtcgattaaa aaaattatct tggtacttcg aagtatgtcc tatatgggga aaaaacgtac 1260
acagttttct gtgaaatatg atgctgtatg tggttgatg tttttttcac ctctattgtg 1320
aattcttttt cactgcaaga gtaaccaggn tttgtagcct tgtgcttctt gcctaagaga 1380
aaggaaaaac naaatcagag ggcattaaat ggttttgtat ggtgac 1426
```

<210> 310

<211> 1493

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (975)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1483)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1492)

<223> n equals a,t,g, or c

<400> 310

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ttgaaatctg ttcttacata atagagaaca gggctattga ataaagaccc aatcctacca 120
gatcttttagt tctaaagggc aacttgactg tgagtaggag ggcccccaag aaaggragga 180
aagtccacac ccagctaacc acacaacagg gcttcattat ggaaatattt taacaaaagt 240
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aaataacctc attttatgca gcagtttaat ctgagaacag agggaaaagg gtgcagtggt 360
tccagagggg ccttatattc ttttttagt ctagatattt ttgtttata aattcccaag 420
gaattgttaa cactttggtg acacctaatg gattctttt gaaattccaa ggtgcttcag 480
ttctttgccc aagtgaactg tgccttttat tgcatttctg ttcgtctctt ggtggctctt 540
ctgacttttt ggagaatacc catcttggtg gaggcagact taagttgtta tgctgtgcca 600
cacaatttac tgagacaatc atatcttcct aagcatttaa ggaaagtga aaaaaataga 660
attagctata aaatatgtat ggcacatctt gttaaatttt gcatgtaact tctcttttgt 720
acattgatga ggttttagtg acattgtcat ccaacacttt acctttattg ttcagggaat 780
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ttgtttctca gattaagaca ctgttagaac cttaaagtagt agctgatggg tatctgtgaa 960
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ttactgcagc agcattttta atgtgtaagt gaagaaaaaa ggccactaag gccaaagatt 1200
ttttaagaat cattgtacaa atcattatgt taaactatct aagctttgct gtaatactgt 1260
tttctcttca atatgtgatg gtacaggaag gatgttaa at gaaggggtgg tattgcagga 1320
gagcatttta aatggcagaa gtaaaaagtt ataattttta taattttgat gggtttaagt 1380
ttatttttgt agggaagatt tttctcccct aaaatagttt ctagaatggc aaaattgttt 1440
ccattattaa aaattgaagt tattagttaa aaaaaaaaaa aanaagaaaa ana 1493
```

<210> 311

<211> 2342

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2322)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2327)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2338)

<223> n equals a,t,g, or c

<400> 311

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ggttctagat cgcgggcggc cgctcgcgag cagctgccga agtcagttcc ttgtggagcc 60
ggagctgggc gcggattcgc cgaggcaccg aggcactcag aggaggtgag agagcggcgg 120
cagacaacag gggaccccg gccggcggcc agagccgagc caagcgtgcc cgcgtgtgtc 180
```

```

cctgcgtgtc cgcgaggatg cgtgttcgcg ggtgtgtgct gcgttcacag gtgtttctgc 240
ggcaggcgcc atgtcagaac cggctgggga tgtccgtcag aacccatgcg gcacaaggcc 300
tgccgcggcc tcttcggccc agtgacagc gagcagctga gccgcgactg tgatgcgcta 360
atggcgggct gcatccagga ggcccgtgag cratggaaact tcgactttgt caccgagaca 420
ccactggagg gtgacttcgc ctgggagcgt gtgcggggcc ttggcctgcc caagctctac 480
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tcacctgtct tgctgcaggg gacagcagag gaagaccatg tggacctgtc actgtcttgt 600
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atcttctcca agaggaagcc ctaatccgcc cacaggaagc ctgcagtcct ggaagcgcg 780
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agcctctggc attagaatta tttaaacaaa aactaggcgg ttgaatgaga ggttcctaag 960
agtgtcgggc atttttattt tatgaaatac tatttaaagc ctccctcatcc cgtgttctcc 1020
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gtaaacagat ggcactttga aggggcctca ccgagtgggg gcatcatcaa aaactttgga 1260
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ctagtcttac ctcaggcagc tcaagcagcg accgccccct cctctagctg tgggggtgag 1740
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atgggggagt agatctttct aggggggaga cactggcccc tcaaatcgtc cagcgacctt 1860
cctcatccac cccatccctc cccagttcat tgcacttga ttagcagcgg aacaaggagt 1920
cagacatttt aagatggtgg cagtagaggc tatggacagg gcatgccacg tgggctcata 1980
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ctggcctgga ctgttttctc tcggctcccc atgtgtcctg gttcccgttt ctccacctag 2160
actgtaaac tctcgagggc agggaccaca ccctgtactg ttctgtgtct ttcacagctc 2220
ctccacaat gctgaatata cagcaggtgc tcaataaatg attcttagtg actttaaaaa 2280
aaaaaaaaa aaaaaaaggg gggggggccc cggtagccaa antttgnccc ctaaaagnng 2340
ag 2342

```

<210> 312

<211> 854

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (850)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (854)

<223> n equals a,t,g, or c

<400> 312

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tgaggaggtt catggaagag ttccctcttt gttcttgctt ctttttctt tcttttcttt 120
tctcctaaag cttttattta acagtgcata aggatcggtt ttttttgctt ttttaaactt 180
gaattttttt aatttacact ttttagtttt aattttcttg tatattttgc tagctatgag 240
cttttaaata aaattgaaag ttctggaaaa gtttgaaata atgacataaa aagaagcctt 300
ctttttctga gacagcttgt ctggtaagtg gcttctctgt gaattgcctg taacacatag 360
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ctctgttggg agcaattggc agccctattt cagtttattt tttcttctgt tttcttcttt 480
tcttttttta aacagtaaac cttaacagat gcgttcagca gactgggttg cagtgaattt 540
tcatttcttt ccttatcacc cccttggtgt aaaaagccca gcacttgaat tgttattact 600
ttaaatgttc tgtatttcta tctgttttta ttagccaatt agtgggattt tatgccagtt 660
gttaaaatga gcattgatgt acccatTTTT taaaaaagca aggcacagcc ttgccccaaa 720
actgtcatcc taacgtttgt cattccagtt tgagttaatg tgctgagcat ttttttaaaa 780
gaagctttgt aataaaacat ttttaaaaat tgtaaaaaaa aaaaaaaaaa aaaaaaaaaa 840
aaaggggggn cccn 854
```

<210> 313

<211> 1501

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1387)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1395)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1399)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1438)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1497)

<223> n equals a,t,g, or c

<400> 313

```
ctcagtagcg tcgaattccg ggctcgaccac gcgtccgctt tctccacca tcccagagaac 60
```

```
atcaaataaa gtccccgtgg tgcagccatc ccatgcggtc catcctctca cccccctcat 120
cacttacagt gacgagcact tttctccagg atcacacccg tcacacatcc catcagatgt 180
caactccaaa caaggcatgt ccagacatcc tccagctcct gatatcccta ctttttatcc 240
cttgtctccg ggtggtggtg gacagatcac cccacctctt ggctggcaag gtcagcctgt 300
atatcccatc acgggtggat tcaggcaacc ctacccatcc tcaactgtcag tcgacacttc 360
catgtccagg ttttcccatc atatgattcc cggctcctct gggtcccccaca caactggcat 420
ccctcatcca gctattgtaa cacctcaggt caaacaggaa catccccaca ctgacagtga 480
cctaatagcac gtgaagcctc agcatgaaca gagaaaggag caggagccaa aaagacctca 540
cattaagaag cctctgaatg cttttatggt atacatgaaa gaaatgagag cgaatgtcgt 600
tgctgagtgt actctaaaag aaagtgcagc tatcaaccag attcttggca gaaggtggca 660
tgccctctcc cgtgaagagc aggtctaaata ttatgaatta gcacggaaaag aaagacagct 720
acatatgcag ctttatccag gctggtctgc aagagacaat tatggtaaga aaaagaagag 780
gaagagagag aaactacagg aatctgcac aggtacaggt ccaagaatga cagctgccta 840
catctgaaac atgggtgaaa acgaagctca ttccaacgt gcaaagccaa ggcagcgacc 900
ccaggacctc ttctggagat ggaagcttgt tgaaaaccca gactgtctcc acggcctgcc 960
cagtcgaccc caaaggaaca ctgacatcaa ttttaccctg aggtcactgc tagagacgct 1020
gatccataaa gacaatcact gccaacccct ctttcgtcta ctgcaagagc caagttccaa 1080
aataaagcat aaaaagggtt tttaaaagga aatgtaaaag cacatgagaa tgctagcagg 1140
ctgtggggca gctgagcagc ttttctcccc ccatatctgc gtgcacttcc cagagcatct 1200
tgcatccaaa cctgtaacct ttccgcaagg acggtaactt ggctgcattt gcctgtcatg 1260
cgcaactgga gccagcaacc agcacatcca tcagcacccc agtggaggag ttcattggaag 1320
agtccctctc ttgttctgct tcatttttct ttcttttstt ttcttcctaa agctttaatt 1380
aacaagnggc aaaangganc gttttttttt ggttttttta aaacctggaa tttttttnaa 1440
ttaacacttt ttaagtttta aattttcttg ggaaaatttg gctaagcttt tgaacctttt 1500
t 1501
```

<210> 314

<211> 1193

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (999)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1069)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1190)

<223> n equals a,t,g, or c

<400> 314

```
ggaagattcc ttttctggga gtttgtcttg ggatgcaact agcagtgata gagtttgcaa 60
gaaactgcct taacttgaaa gatgctgatt ccacagagtt taggccaaat gcccagttc 120
ctctgggtgat tgatatgccc gagcacaacc ctggcaattt gggaggaaca atgagactgg 180
gaataagaag aactgttttc aaaactgaaa attcaatatt aaggaaactt tatgggtgatg 240
```



```

ttccttttat agaagaaaga cacagacatc ggttcgaggt aaaccctaac ctgatcaaac 300
aatttgagca gaatgactta agttttgtag gtcaggatgt tgatggagac aggatggaaa 360
tcattgaact ggcaaatcat ccttattttg ttgggtgtcca gttccatcct gagttttctt 420
ctaggccgat gaagccttcc cctccgtatc tggggctgtt acttgagca actgggaacc 480
tgaatgccta cttgcaacag gggtgcaaac tgtcttccag tgatagatac agtgatgcca 540
gtgatgacag cttttcagag ccaaggatag ctgagttgga aataagctga aatgaataga 600
tgactgggaa taatggggac tgctgtgag gcctctgaaa taattgaagg caagatgaag 660
gaactatctg aagaaatcac tacactctta gagaatccct ctgttctcca gcaaactgga 720
gatgtaaaag ctcacaggga atctgataat acatacttct gtcaaccaga accagagggg 780
tagttttctt ttccctccag aggcagcctt tgggtactta aatatctgta gctgattaaa 840
tttttcccaa caacctcact ggggagaaaag tgtgttcag ttttgtccag cggatcagga 900
tgtaggatg acgagcaaga gtccagggtca ctgtgccttt gctgtgttgt atggaaagga 960
tggcagggaa catgctgtaa gtaattttga gtaagaaant gagtcactgt gttacctgga 1020
actcagccac agatttgtgt gtggtccaag atcattgcag tttctcacnc tgtttatttc 1080
ctggtaaaag taaaattgaa taggtccaag acttgggggt ggcaagtaag gctttgcctc 1140
aagcacaaaa ttaaggggg ctccaaaaaa ctcaggaatc caaggggggn ggg 1193

```

<210> 315

<211> 798

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (547)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (718)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (771)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (783)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (793)

<223> n equals a,t,g, or c

<400> 315

```

ggccatgggc tgcccttggt ttgggttgtg ggtttctggt cagtgagaac gcaactcaat 60
ccaaagtga tgaaaccaag ttggaaggca gggagggaac tggctttgag atgacagggt 120
ccaggatgtg aatgcagctg agactgggtt ttgtccctcc ctcttgtccc tcggattgat 180

```

```
aacttgtagt caactacatg cttttgtcag ggaaccctgg ctgctggcct tctgggtccc 240
ctaaccataa gaaaaaggac cttccgttag tgtaaagccc aaggcaggat tctgcttggc 300
tggtcttcga tctggtaccc atagctggac caatcatgac atcccagatg gggtcacgtg 360
gccaacctgc cgcaaggggg tgggtctgt accggaagac aggaggggag ggggtgcagat 420
cggacaggaa gtaatggcat cccaggcccc gaattgctgc aaccctggag gccagcccs 480
agttgagact actggtttta gagcagttcc tctgccttcc taagctccac acctgtcagg 540
attctgntac ttcttggtaa ctgggacttg ccaactttaa aaacattatt taaaaaata 600
gtaatgtgca catgtaaaag attcaaatag tatatataca aggtgtacag taaaaaagta 660
aacttccctt catcccaagc ctggcagcat tccctgatgc cgactttctg ggtgtggnet 720
aaggccccctt aatgtaatgt aaggggttgt gaacacaaga acttttggtg ncaagtttgc 780
tanggttcga atncctga 798
```

<210> 316

<211> 1935

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<400> 316

```
tgagctgcag gtcgacacta gtggatccaa agaagcnngg cagcagagaa tggcagcaag 60
ttgacaggca gctgccttca ctggcatgca aatatccagt ttcttccagg gaggcaacac 120
agatattatc agttccaaaa gtatgatgat aaatccatagg gtttatttct gaagccactc 180
cactaggagg tattcaagca gcctccactg agtcttgcaa tcagcagttg gacttagcac 240
tctgtagagc atatgaagct gcagcatcag cattgcagat tgcaactcac actgcctttg 300
tagctaaggc tatgcaggca gacattagts aagctgcaca gattccttagc tcagatccta 360
gtcgtaccca ccaagcgctt gggattctga gcmaaacata tgatgcagcc tcatrtattt 420
gtgragctgc atttgatgaa gtgaagatgg ctgcccatac catgggaaat gccactgtag 480
gtcgtcgata cctctggctg aaggattgca aaattaattt agcttctaag aataagctgg 540
cttccactcc ctttaaaggt ggaacattat ttggaggaga agtatgcaa gtaattaaaa 600
agcgtggaaa taaacactag taaaattaag gacaaaaaga catctatctt atctttcagg 660
tactttatgc caacattttc ttttctgtta aggttgtttt agtttccaga tagggctaata 720
tacaaaatgt taagcttcta cccatcaaat tacagtataa aagtaattgc ctgtgtagaa 780
ctacttgctt tttctaaaga tttgcgtaga taggaagcct ggtacaaaca atttaacgct 840
ttctagatca catattagtc tctaagttgt tttctgtttc ctgctttact tatgttttta 900
caattctcca aaactaagaa aattctaatt aggatataag gagtatttac tgttcaatag 960
aataatatgc atcctccttt atacctagga cagaattaaa catttggttac acattcagaa 1020
cagtgatgtt gttctttttg atacttttat ctcatgtatc tttcacgttc cataacttgt 1080
ccatatagtt gctcatattt tcttactttt ctttggttatt tattcatgtc tgcaacatca 1140
atcatatgat tcatagcaa tgcaactcaa agcaccagtc tacaactgt tacttatcca 1200
caggcaagat aagcatgcac aagaatttaa atctaragat acttttttagg tcaatgacag 1260
gatttgattt tttagcaaaa ttttattaat agctaaagca atgtattgat ttacactctg 1320
atgcaagtaa tttatctctt cattgactgg tagcaaccaa ttcattggacc agtaccatgg 1380
```

```
accacacttt gagaaacact tctttggata ataatagata tcctgggata gtgcatgttc 1440
accatctatt ttgtcagata atggggcctt ttaaaaaata atactttgct ttcattgatat 1500
attgtatttt gtggaaagt aaagtttagca atatagactc taaaagcaaa ttaaattttt 1560
ttaagccata agaaattata ctatatccca gtatctgtat gtctgtataa agcagtggtat 1620
tatcatgttt tcatttctgt gattgtaagt taagagtctt aactgcagag gtattgtgga 1680
aagtagtagc ctttaagcata ataaaatatg gtctcttggg tactccctct ggccattacc 1740
acattcttag attatatgtg tccatctttg cagctttctg agagtaattt tatttggtgt 1800
cttctgaaat gtacatgtat acatgtacct actgagtgt atgtgatttt taaaaatgta 1860
ttactgtaga atgcttctgc aaattcaata aagttgttaa atttgaaaaa aaaaaaaaaa 1920
aaaaaaaaaa aaaaaa 1935
```

<210> 317

<211> 1738

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1723)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1732)

<223> n equals a,t,g, or c

<400> 317

```
cattttcaac aagaccatc gnactgacac tgatgcttat ggctgttctg aactgtctct 60
tcgactcatt gagccagatg ctgaggaaaa atgtagaaaa gcgagcactg ctggagaaca 120
tggaggggct gttcttggct gtggatgaaa ttgtagatgg aggggtgatc ctagagagtg 180
atccccagca ggtggtacac cgggtggcat taaggggtga agatgtcccc cttacggagc 240
agaccgtgtc tcaggtgctg cagtcagcca aagaacagat caagtggta ctccttcggt 300
gaagacctca ctgttcctgg ctcttcaccc tcttcaaaaa atttgcattg ctgctgtgaa 360
ttttcatcta gttccccaat cgatgctctc agggtcattc cggggatcac agggatcctt 420
aaatctccat tctgtttgtg gttgccccct caacctcccc tacaccttc ctattctttt 480
tcattcttct tgcagttctg ggagtaaagc tcccagcata tttagataat agggcagggg 540
aagcaccctc tttctttcta gactggatta tgctcacatg ctcccttgcc ctgacatttt 600
tgtaaatctt gtgccctttg ctgtagctac acttcagatt aaagtaggag aaagaatgtg 660
ctgagtgttt tcctcccttt gcctctacct ggccctcatc ccaacagccc agcaagggga 720
gagagaaaga gaattctttt ctatagaacg agtgggggag gggatgggta gggatttate 780
caatctaagc cctaacccca cttagtgaac tcagtgtttt cttccattcc ttcttactgc 840
cctgtcctct gccttgaag aggccttggg aatagttcat aggggaaggga caacatggaa 900
gaaacagcga tttaaatgt attgaacagg gcatataaaa tgcatctgt accctgattc 960
ggcatatagc ttcaaaactg cagtggcgag tgtccatctc ttagttagct accttaactg 1020
tccaccttta ctacctgtg gatcggtgcc tgggttgtct tctctgtgtc ctggagcaaa 1080
gccagttcct aaaactaaaa ctccattcta gtcttgggaa gaaaagtctt tactcagaac 1140
```

```
tggggaagga gtggaactta tgacttgggc ctctaggctg tctctgtccc ctcagctccc 1200
cgacatgcat ttactctctg ccgtgggtct gcagtcgctg caacctaccc tctctctgcc 1260
tcagccttac acccaagcag taggtctgtg ctctccctgt ctctaggctg ctgagagagg 1320
tgcttttctt cataaaacct ttgggggttg gatttcccca ggaagatgga gaatggaata 1380
ctcactcttg ggtctaactt ttccccttga cccagaactt cctccccaca aaaatgcctt 1440
taaaaacctt cctgagactt aagcattctg ccccaacttac taactgccag ttctccagca 1500
ctgagggtgg gcagataacg gggcatattt aagggggcat ctttgtgtaa aagatgcatg 1560
gagtcaggag aaaaccacct tcataaactg ctctgtgcaa agaggaataa aacatttttt 1620
ccaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1680
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aanggggggc cnttttaa 1738
```

<210> 318

<211> 1340

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (67)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1340)

<223> n equals a,t,g, or c

<400> 318

```
tttaggtgac actatagaag gtacgcctnc aggtaccggg tccggaattc ccgggtcgac 60
ccacgcntcc cgggaggaga agtccaagca gttcctcgac ttgatggaga ctattgataa 120
gcagcgagaa gagatggcca agagcagcag ggcgtcggca gcccgtagag ggaagcttca 180
ggaagccctg aatgagaggc actccatcat caacgctctc aaggccaagc tgcagatgac 240
agaggccgcc ctggctctgt cggagcagaa gggccaggac ctgggggagc tcctggccac 300
agcggagcag gaggcagctg gcctgtcaca gaggcaggcc aaggagctca agctggagca 360
gcaggaagct gcagagcggg agtctaaact cctcagagac ttgtctgctg ycaatgaaaa 420
gaacctgctt ctgcaaaacc aggtagacga gttggagcgg aagttcaggt gtcagcagga 480
gcagctgttc cagaccaggc aggagatgac cagcatgtca gctgagctga agatgcgggc 540
catccaggcg aggagcgcct ggacatggag aagagaagat gcagacagag cctggaggac 600
tccgaaagcc tgcgcatcaa ggagggtggag catatgaccc gtcacctgga ggagagtga 660
aaggccatgc aggagcgggt gcagaggctg gaggcggcgc ggctgtccct ggaggaggag 720
ctgagccgag tgaaagcagc ggcactcagc gagcgtggcc aggctgagga ggagctgac 780
aaggccaaga gccaggcccg cctggaggag caacagcgcc tggctcacct ggaggacaa 840
ctgagactgc tggcgacggc acgggacgag gcgcaggcg cttgcctaca gcagaagca 900
gtgggtggcg agggccagac ccgggtcagc cagctggggc tgcaagttga gggcctgcgg 960
cggcgccctg aagagctgca gcaggagctg agcctcaagg accaggaaa ggtggccgag 1020
gtgagcaggg tgcgcgtgga gctgcaggag cagaacggcc ggctgcaggc ggagctkgcg 1080
gctcaggagg cgctgaggga gaaggcggcg gccctggagc gccagctgaa agtgatggcg 1140
```

```

agcgaccacc gagaggcgct gctggacagg gagagcgaga acgcgtctct ycgggagaag 1200
ctgcggtccc gggaggcgga gatcgccccg catccgggac gaggaggccc araagggcga 1260
gcttcctgca gaacgccgtc ctggsttacg tgcaggcgtc cccgtgagga ccctgacccc 1320
ccaaagtgag acaggcccg 1340

```

```

<210> 319
<211> 784
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (511)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (603)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (643)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (754)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (763)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (778)
<223> n equals a,t,g, or c

```

```

<400> 319
gcgcgggttc agacctgccg agcgcccgcc gccgcgggag gggcttgagg ccggggcggg 60
gcggggcggg gcgtccccct cgtaggctcc gggccgcgca ttctcagcgc tgggagccgc 120
cgccccgcga gctgcgcgcc gccgccaggg cccggactcg gacgcgtgcc tagagtcctg 180
gggagcttct gtccacctgt cctgcagagg agtcgtttcc agcccggctg cccaggatg 240
ggtgagttca acgagaagaa gacaacatgt ggcaccgttt gcctcaagta cctgctgttt 300
acctacaatt gctgcttctg gctggctggc ctggcgtgtca tggcagtggg catctggacg 360
ctggccctca agagtgacta catcagcctg ctggcctcag gcacctacct ggccacagcc 420
tacatcctgg tgggtggcgg cactgtcgtc atggtgactg gggctcttggg ctgctgcgcc 480
amcttcaagg agcgtcggaa cctgctgcgc ntgtacttca tcctgctcct catcawcttt 540
cttgctggag atcawcgtg gtatcctcgc ctacgcctaa ttaccagcag ctgaacacgg 600

```

agntcaagga gaacctgaaa ggacaccatg gaccaagcgt tancaccagc cgggccatga 660
ggttgttgac cagcgttttg ggaccagttg cagcaggatt tccattgttt tgggaagcaa 720
caatttacag ggtttggcga gacattgagt tgantccgtt aanaggaggc cttggttngt 780
tggt 784

<210> 320

<211> 3527

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (94)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (96)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1926)

<223> n equals a,t,g, or c

<400> 320

gccggcgtct cctggctgcc gtcacttccg gttctctgtc agtcgcgagc gaacgaccaa 60
gaggggtgttc gactgctaga gccgagcgaa gcgntngcct aaatcaaagg aacttgtttc 120
ttcaagctct tctggcagtg attctgacag tgagggtgac aaaaagttaa agaggaaaaa 180
gcaagttgct ccagaaaaac ctgtaaagaa acaaaagaca ggtgagactt cgagagccct 240
gtcatcttct aaacagagca gcagcagcag agatgataac atgtttcaga ttgggaaaaat 300
gagggtacgtt agtgttcgag attttaaagg caaagtgcct attgatatta gagaatattg 360
gatggatcct gaaggtgaaa tgaaccagg aagaaaagggt atttcttta atccagaaca 420
atggagccag ctgaaggaac agatttctga cattgatgat gcagtaagaa aactgtaaaa 480
ttcgagccat ataaataaaa cctgtactgt tctagtgtgt ttaactctgtc tttttacatt 540
ggcttttgtt ttctaaatgt tctccaagct attgtatgtt tggattgcag aagaatttgt 600
aagatgaata ctttttttta atgtgcatta ttaaaaatat tgagtgaagc taattgtcaa 660
ctttattaag gattactttg tctgcccacc acctagtgtt aaataaaatc aagtaataca 720
atcttaactg ttgtggcctt ttttgatcat aagagtttgt actgtttaag gccaaaagta 780
acagttttta tagatctttt agtttcaact cagcttttac aataaaaagg atttgatttg 840
cattgagttt ataaactttt ggtttgtgaa cttcatattt gatcttttct cttccaatca 900
aatgtctagg cttgtttgac ttccaccccc aatggttttt cactcttttt atttacttca 960
ttttccttta ataaacttaat ctcttcatgt tcagttttta cttcactctt tattcttttc 1020
tttgattatg gtatgcttat ttggaaagtc agtgaaactg tcaaatgtt atctcaataa 1080
gatacttata tgagaactac aatcaccgaa tctactgtat tcaatattag cagatctaata 1140
ttgataaaca acatggcctg tgtgaaaact gagcaggtgt ttgtttaccc atagtgttct 1200
gtgtagttat tgcttagtct gcagaaaata atgacttaga tgagatgtct gacttgcttt 1260
cacttattaa acatgttcac catgggatga tgtctgtaac atcagatatt gttcaactag 1320
actaggattt aataaaaatt gtgaaagctt actggcctaa cattttattt tataatattg 1380
gggtatgaatt atatgtagcc agagatgtca ttaagcttta ctgttatagt aggtaatatg 1440
gttagtttgt agggaaaaga gcatatgagc acatgcttgt gtattttggc ctttgcccca 1500

```

gtagaacaga' ccaatggcat tctagacttg atgatactaa gtttttagcag acactagtaa 1560
gtggtttgta ttttaaccata ctgatgaagc agacagattg aggcacagat tttagtggct 1620
ttgtggcaat aaatagggca tgggtgtgct taggaaaaga atgtttataa agggaattat 1680
aactgaaatt aaaggaggcg gcagtgaaga gaaataaty ctcttctatc taaatgatat 1740
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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa 3527

```

<210> 321

<211> 1449

<212> DNA

<213> Homo sapiens

<400> 321

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catttggttca ggctggtcaa gatcttgaag aaaatatgga tgaagacrtt tcagagaaaa 180
tcaaagaacc tctgtattac tggcaacaga ctgaagatga tttgacagta accatacggc 240
ttccagaaga cagtactaag gaggacattc aaatacagtt tttgcctgat cacatcaaca 300
ttgtactgaa ggatcaccag tttttagaag gaaaactcta ttcattctatt gatcatgaaa 360
gcagtacatg gataattaaa gagagtaata gcttggagat ttccttgatt aagaagaatg 420
aaggactgac ctggccagag ctagttaatt gagataaaca aggggaactt ataagagatt 480
cagcccagtg tgctgcaata gctgaacgtt tgatgcattt gacctctgaa gaactgaatc 540
caaatccaga taaagaaaaa ccaccttgca atgctcaaga gttagaagaa tgtgatattt 600

```

```
tctttgaaga gagctccagt ttatgcagat ttgatggcaa tacattaaaa actactcatg 660
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gccttcgtcg agtattcatc tatcgtcagc ctgctcccat gtccactgta ctttacaaca 960
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cttctgaaaa aaaaaaagag tgaagatagt actagcaagt atacttattt tttaaaacag 1380
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tattgtgta 1449
```

<210> 322

<211> 777

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (36)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (752)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (771)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (775)

<223> n equals a,t,g, or c

<400> 322

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ggcggcgatc ccggcggagg gggccgttcg ccagcnctga ggcagaaagt gccacgactc 60
cacacgcgcg cagcagacca gcgagcggcc ggagcggacg gcagacgggg cgggcggcgt 120
cagggtcgca gcgtctacag ctgctcgggg gcggtttctt ggcggaggct tggccggctc 180
ctctctcccg gctccgcggc ggctgcgaag gcggcggctc ctgccctctc gctttccctc 240
tcgcgtctct ggctgcaggt gaaaggaaag caagccagga tggatattta cgacactcaa 300
accttggggg ttgttggtctt tggaggattc atggttggtt ctgccattgg catcttcctg 360
gtgtcgactt tctccatgaa ggaaacgtca tatgaagaag ccctagccaa ccagcgcgaag 420
gagatggcga aaactcacca ccagaaagtc gagaagaaaa agaaggagaa aacagtggag 480
aagaaaggaa agaccaagaa aaaggaagag aaacctaata ggaagatacc tgatcatgat 540
```



```
ccagccccc  atgtgactgt  cctccttcga  gaaccagtgc  gggctcctgc  tgtggctgtg  600
gctccaaccc  cagtgcagcc  cccattatc  gttgctcctg  tcgscacagt  tccagccatg  660
ccccaggaga  agctggccty  ctyccccaag  gacaaaaaga  araaggaraa  aaaagttgca  720
aaagttggac  cagtgtcast  ctgtagtgat  tncatccagg  tttcaatttg  naagntg     777
```

<210> 323

<211> 1214

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1203)

<223> n equals a,t,g, or c

<400> 323

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taccaagtcc  atcgacatct  ggtctgtggg  ctgcattctg  gctgagatgc  tctctaaccg  120
gcccattctc  cctggcaagc  actacctgga  tcagctcaac  cacattctgg  gcatcctggg  180
ctccccatcc  caggaggacc  tgaattgtat  catcaacatg  aaggcccgaa  actacctaca  240
gtctctgccc  tccaagacca  aggtggcttg  ggccaagctt  ttccccaagt  cagactccaa  300
agcccttgac  ctgctggacc  ggatgttaac  ctttaacccc  aataaacgga  tcacagtgga  360
ggaagcgctg  gctcaccctt  acctggagca  gtactatgac  ccgacggatg  agccagtggc  420
cgaggagccc  ttcaccttcg  ccatggagct  ggatgacctt  cctaaggagc  ggctgaagga  480
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ctcctcccca  cccgcccctc  ccacggggcc  tcgggagctc  aggtggcccc  agttcaatct  780
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ctgaagggaac  attccttagt  ctcaagggtt  agcatccctg  aggagccagg  ccgggcccga  1020
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gaagtggagc  tggggggcgt  ggagagcccg  gcgcccctgc  cacctccctg  acccgctcaa  1140
tatataaata  tagagatgtg  tctaaaaaaa  aaaaaaaaaa  aaaaaaaaaa  aaaaaaaaaa  1200
aancccgggg  gggg                                     1214
```

<210> 324

<211> 1046

<212> DNA

<213> Homo sapiens

<400> 324

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cacttgtagt  cttcttcat  tcagtggagt  ccagaaatat  atgcagaaga  tactggcgaa  60
tataccagag  aacctggatt  tatagtagta  aaaaagattg  aggagtctga  aacaattgag  120
gattctagta  atcaagcagc  agccagagaa  tgggagatta  ctacaagggg  agacataaat  180
tcaaagcagg  ttgctacagt  gaaagcagac  ctggagtctg  aatcttttct  accaaacctt  240
agtgatccca  gtgaactttt  actgccagat  caaattgaaa  agcttaccaa  gcatcttcca  300
ccaagaacaa  ttggctatcc  atggactctt  gtttatggta  ctggaaaaca  tggcacaagc  360
ttgaaaactc  tttatcgaac  aatgacaggt  ttagacaccc  cagtgtctgt  ggtgattaaa  420
```

```
gacagtgatg gacaggtttt tgggtgcgtta catctgarcc actgaaagtg agtgatggct 480
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ggacaggaga taatatgttt tttatcaaag gagacatgga ttcactagct ttcgggtggtg 600
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gtaaaacgtt tgggaatcgt acactttcta agaaggaaga tttctttatc caagatatgt 720
aaatctgggc ttttgaataa ataaaatgct ctctgtctta gcaggagaat ggcccaaacc 780
tgacatggac aagcattgtt tggaaagtgc aagaagcaat acagtgtaac atgtcacttg 840
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aaatcatgtt cttgtcccag agttcttttag gttaacacta gggactgcgt ccatgggtact 960
agtataacag cttgggtttg ttagaatttg ggcaacattt tggattataa tgacaacttc 1020
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```

<210> 325

<211> 674

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (465)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (666)

<223> n equals a,t,g, or c

<400> 325

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agatcacttt aagataatth ctttattcgt ttgcccagaca gaccatggct ccctttggaa 120
gaaacttgct aaagactcgg cataaaaaaca gatctccaac taaagacatg gattcagaag 180
agaaggaaat tgtggtttgg gtttgccaag aagagaagyt tgtctgtggg ctgactaaac 240
gcaccacctc tgctgatgtc atccaggctt tgcttgagga acatgaggct acgtttggag 300
agaaacgatt tcttctgggg aagcccagtg attactgcat catagagaag tggagaggct 360
ccgaaagggt tcttcctcca ctaactagaa tcctgaagct ttggaaagcg tggggagatg 420
agcagccma tatgcaatth gttttgggta aagcagatgc tttnttcca gttcctttgt 480
ggcggacagc tgaagccaaa ttagtgcaaa acacagaaaa attgtgggag ctcagcccag 540
caaacttaca tgaagactth accaccagat aaacaaaaaa gattagtcca gggaaaactt 600
tccgggaaac tggctaaaat ttaggcagga cacatthttt catggttcgg gataatatgg 660
gggacnttag ttcc 674
```

<210> 326

<211> 357

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (342)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (354)

<223> n equals a,t,g, or c

<400> 326

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tgttttgtcc tttgtggagc ctcagcagtt ccctctttca gaactcactg ccaagagccc 120
traacaggta atgggtagag gatacagatt atcctgtgaa gtgatatcga tctggaaaca 180
ggtctgggga gctggagggg ctctagttag ggttctggga gggctctggg ttagtggtgg 240
ggggagcaca ggatatacag gtgctaggaa agagcatgga gtgacctgca gtgtgggagt 300
caggctgggt gtgcagggtg aggaacctgg ggtgttagga tntcagagtg tcangtg 357
```

<210> 327

<211> 1579

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (969)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1413)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1574)

<223> n equals a,t,g, or c

<400> 327

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cgcacccacg cctcgtgcc ccgcttcctg ccctcaacct gggcatgcgs cccccacct 120
tccggccccc cagaacccgc gccatcccc ggagcctccc cagagctggc cgcgcaggat 180
gggcgccttc aggccacgc tgctgccgc ttcgctgccg ctgctgctgc tgctaagtgt 240
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gccccgaggc cgycaggccc caacctcacc cccacgcatg acggtgcatg aggggcagga 720
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ggagcttygt ctgggcaagg aagggaccga tcggtaccgc atggtagtag ggggtgcccc 960
ggcaggggna cgcaggcacc taccactgca ctgccgctga gtggattcag gatcctgatg 1020
```

```
gcagctgggc ccagattgca gagaaaaggg ccgtcctggc ccacgtggat gtgcagacgc 1080
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gcttgtgcaa catnttctt 1579
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<210> 328

<211> 2272

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2222)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2263)

<223> n equals a,t,g, or c

<400> 328

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agcttaaaaa tggaaaatga agagtttaag aagagggttca gtgatgctac atccaaagcc 180
catcagcttg aggaagatat tgtgtcagta acacataaag caattgaaaa agaaaccgaa 240
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cagttgaaga cagagaagga tgaaaaggaa ctttataagg tacatttgaa gaatacagaa 360
atagaaaata ccaagcttat gtcagaggtc cagactttaa aaaatttaga tgggaacaaa 420
gaaagcgtga ttactcattt caaagaagag attggcaggc tgcagttatg tttggctgaa 480
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gagttaatgt ttcctcctaa ctatgatcag agcaaatttg aagaacatgt tgaaagtcac 1620
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acagtcttat gaagtagttc ttcgaatata gaaagttcta taaatttagc ccatgttaat 2220
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<210> 329

<211> 1320

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1256)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1275)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1290)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1298)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1302)

<223> n equals a,t,g, or c

<400> 329

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tgggatcttg acaaagacac tatttctctc ctttcacctg tgctgtgtat ttttccctcg 120
cctagttccc agacctcact gctatatgtc ttctccctgg caggcaggat gacgcaaaac 180
acgggtgattg tgaatggagt tgctatggcc tctaggccat cccagcccac ccacgtcaac 240
gtccacatcc accaggagtc agctttgaca caactgctga aagctggagg ttctctgaag 300
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aagtttcttt ttcacctggt ggacactgtg ccttccacag ccaggattgg ttatgagcag 360
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ctcagcttgg gggcctggac tgtgctgmgt gcctcaggct gtgccttctg ggcgggggtct 480
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<210> 330

<211> 1860

<212> DNA

<213> Homo sapiens

<400> 330

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<210> 331

<211> 1576

<212> DNA

<213> Homo sapiens

<400> 331

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<210> 332

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (34)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (467)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (556)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (567)

<223> n equals a,t,g, or c

<400> 332

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ccagtcccag aaaagcctac agaaaacctg gggaacacca cactgaccac tgagaccata 180
aaagccccag taaagtccac agaaaaccca gaaaaaacag cagcagtcac aaagactata 240
aaaccttcag tcaagggtcac aggagacaaa tctctcacta ctacctcttc tcactctaat 300
aaaactgaag ttactcatca ggtgcccact ggttctttca ccctcattac atctagaacg 360
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gatggctcac agaaaggtat ccacgctgga cagatgggag agaatgnatt cattccctgc 480
atggggccata gttattgtgg gtcctggtgg ctgtgattct cctcctggtg ttccttggcc 540
tgatcttctt ggtctnctat atgatngga caggcg 576
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<210> 333

<211> 1311

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (743)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (764)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1221)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1245)

<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (1254)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1273)
<223> n equals a,t,g, or c

<400> 333
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aggtgtaaaa aagcaagaga aanttaaga gccatyttca ccnttcaag gaggctgytc 780
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<210> 334
<211> 1118
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1115)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1117)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1118)

<223> n equals a,t,g, or c

<400> 334

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gacacctaca acgagatgcc ttaagccagc tcatgaatgg ccccatcaga aagaagctca 180
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ctctatgttg ttttactatt tgtttgacat atcagtatat ctgaaacacc ttttcatgtc 1080
aataaatgtt cttctctaac attttwaana aaaaanann 1118
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<210> 335

<211> 2266

<212> DNA

<213> Homo sapiens

<400> 335

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cgggaaacag gaagtcctgc ttgccaattt cagcacaggg agtagtgacg gccttattcc 240
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aaatattatw cacaggagst agtgatctat gttggtttta gatcaagcca aggtcattca 2220
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<210> 336

<211> 1132

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (214)

<223> n equals a,t,g, or c

<400> 336

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tcggggaaacc aggggaccct ctgcacgttg gagttcgcgc tgcagatgac ctgtcagagc 180
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tttatttttcg tttgggaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 1132

<210> 337

<211> 2229

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2208)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2216)

<223> n equals a,t,g, or c

<400> 337

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acatgacctc aaggagcttc ctgtcaatga gaagaccaag ctgacgcctg gcaaagatat 180
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<210> 338

<211> 3728

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (3707)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3713)

<223> n equals a,t,g, or c

<400> 338

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<211> 2674

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (2646)

<223> n equals a,t,g, or c

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<220>
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<210> 340

<211> 1457

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (380)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1457)

<223> n equals a,t,g, or c

<400> 340

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<210> 341
<211> 3399
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2512)
<223> n equals a,t,g, or c

<400> 341
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<210> 342

<211> 1929

<212> DNA

<213> Homo sapiens

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<221> misc feature

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<221> misc feature

<222> (14)

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<220>

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<222> (1894)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1913)

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<220>

<221> misc feature

<222> (1918)

<223> n equals a,t,g, or c

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<210> 343

<211> 1561

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1311)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1538)

<223> n equals a,t,g, or c

<400> 343

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<210> 344

<211> 2982

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (795)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1329)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1995)

<223> n equals a,t,g, or c

<400> 344

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<210> 345
<211> 1654
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (26)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (41)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1538)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1546)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1584)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1630)
<223> n equals a,t,g, or c

<400> 345
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gagcaacttt attttatggt taccatattt ttaaaaagat tttttgtcag ggtgacttaa 180
catggactct tatagggtat taaaacaatc tagattattc cttttcatcc taaataagcc 240

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gcaagtttgg gaaagggcca gggncagggt tggaatcggc ttgatcccca ggaaggtccg 1620
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<210> 346

<211> 498

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (252)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (493)

<223> n equals a,t,g, or c

<400> 346

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cgtttttagag ganccaag 498

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<210> 347
<211> 3176
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2546)
<223> n equals a,t,g, or c

<400> 347
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<210> 348

<211> 1127

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1017)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1047)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1057)

<223> n equals a,t,g, or c

<400> 348

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<210> 349

<211> 2135

<212> DNA

<213> Homo sapiens

<400> 349

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<210> 350

<211> 1578

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1577)

<223> n equals a,t,g, or c

<400> 350

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cccttgccca aggtcgcccc acttagagcg aaacttaact tttgtctgga tgggaagaga 180
agtaagtcta ccccgagggt gccatggtga agagtgagag gtccaagtga ttctgtgcat 240
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<210> 351

<211> 974

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (935)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (971)

<223> n equals a,t,g, or c

<400> 351

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aatgccagt ggcagtcagt gttctcgcca cccgcmagcc cctttgggca atcttctgtg 720
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cccaccaggg naca 974

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<210> 352

<211> 2601

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2520)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2572)

<223> n equals a,t,g, or c

<400> 352

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ggagaacctc atgctttcca tcctgccccaa gcacgtggct gacgagatgc tgaaagacat 180
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cagtgccag gagcttgtga agctgctcaa cgagctcttt gcccgctttg acaagctggc 360
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ggagttacgg gtttccggtt t 2601

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<210> 353

<211> 921

<212> DNA

<213> Homo sapiens

<400> 353

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acgcgtgggc ggacgcgtgg g 921

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<210> 354
<211> 1311
<212> DNA
<213> Homo sapiens

<400> 354
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<210> 355
<211> 2253
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (430)
<223> n equals a,t,g, or c

<400> 355
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ggcgatctcc caaggcctgc ccgaggcctc tgctctctgt cctcagcccc gcagcggcaa 180
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cacaaactga acatcttttt tttttttttt ttttttggtg ggggagttga aacctaat 420
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<210> 356

<211> 1235

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1109)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1154)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1169)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1171)

<223> n equals a,t,g, or c

<400> 356

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<210> 357

<211> 1408

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1396)

<223> n equals a,t,g, or c

<400> 357

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gccccacggg ggaagaaaaca gaaaaagaca agaatgagac tgagaatgac tctaaagatg 180
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ccaacgggga gctaagtga tctcctggag ctggaaaagg agcatctggc tcaactcgaa 360
tcatcaccag attgcggaat ccagatagca aacttagtca gctgaagagc cagcaggtgg 420
cagccgctgc acatgaagca aataaattat ttaaggaggg caaagaggta ctggtagtta 480
actctcaagg wgaaatttca cggttgagca ccraaaagra agtgrtcag aaaggaarta 540
tcaacaatta tyttaaatg ggtcaagaag ggaagtatcg cgtctaccac aatcaatact 600
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```

ccaccaattc atttgctttg aataagcacc agcacagaga agaccatgat aagagaaggc 660
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atgggtccaa agttcttacc atatctactc tgagactgac tatcacccaa ttagaaaaca 780
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```

<210> 358

<211> 872

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (803)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (813)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (871)

<223> n equals a,t,g, or c

<400> 358

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gctctgtagg cagtgatcgt ggcagtattg tggacactga ggaagagaaa gaagaggagg 180
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<210> 359
<211> 1744
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1744)
<223> n equals a,t,g, or c

<400> 359
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tcggtcttgc ttttatccac atccagcctc atccacaccc gccaggkctc ctcttggga 180
tcttggggtg ggccaaggcg gtaccagttg cacagacggc ccgggccttg tcagcgggga 240
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<210> 360
<211> 673
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (653)

<223> n equals a,t,g, or c

<400> 360

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ccacacagtc tcaagaagaa tttaaactgg aggacctgaa gaagctagaa ccaatcctaa 480
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gattttggca cctggtgaag aagagaattt gggaatttgg aagaagatk gagaagaggg 600
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<210> 361

<211> 1324

<212> DNA

<213> Homo sapiens

<400> 361

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<210> 362

<211> 678

<212> DNA

<213> Homo sapiens

<220>
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 <222> (14)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (469)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (490)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (658)
 <223> n equals a,t,g, or c

<400> 362
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<210> 363
 <211> 5236
 <212> DNA
 <213> Homo sapiens

<400> 363
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<210> 364

<211> 1020

<212> DNA

<213> Homo sapiens

<400> 364

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<211> 2755
<212> DNA
<213> Homo sapiens

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<221> misc feature

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<223> n equals a,t,g, or c

<400> 366

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<210> 367
<211> 1964
<212> DNA
<213> Homo sapiens

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<221> misc feature
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<223> n equals a,t,g, or c

<400> 367
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<212> DNA
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<210> 369

<211> 2411

<212> DNA

<213> Homo sapiens

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<221> misc feature

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<220>

<221> misc feature

<222> (2407)

<223> n equals a,t,g, or c

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<210> 370

<211> 421

<212> DNA

<213> Homo sapiens

<400> 370

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ggatcacaag gtcaggagat caagaccatc ctggctaaca cgatgaaacc ccgtctctac 300
taaaaaattc aaaaacattg gccggcgagg tggcgggcac ctgtagtccc agctgctcgg 360
gaggcttgag gcagaagaat tgtgtgaacc cgggaggcgg agcttgagcag gagcccagat 420
c 421

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<210> 371

<211> 523

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (402)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (404)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (440)

<223> n equals a,t,g, or c

<220>

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<222> (461)

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<220>

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<222> (470)

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<220>

<221> misc feature

<222> (481)

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<220>

<221> misc feature

<222> (516)

<223> n equals a,t,g, or c

<400> 371

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agtactcaac atatgttggc ttttttgaag aaaatactac atatgttcat atataataga 120
ggtatttctg ggtttttttg ttttttggtt ttgctttttt ttgagacgga gcttgctctg 180
ttgcccaggc tggagtgccca tggcacgatc tcggctcact gcaagctccg cctcccgggt 240
tcacgccatt ctctgcctc agcctcccga gtagttggga atacaggcgc ccaccaccac 300
gcctgggcta atttttttgt attttttttag tagagacggg gatttcaactg tgtagccag 360
gatggtctcg atctcctgac ctctgtgatcc acccacctcc gntnccaaag tgctggggat 420
tacaggcgtg accaccgggn ctgggcgaag attccttttag natcctgatn cctctctggc 480
nagattaatt atataagaat aggggcctta atggtncatt aat 523
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<210> 372

<211> 395

<212> DNA

<213> Homo sapiens

<220>

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<222> (205)

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<220>

<221> misc feature

<222> (217)

<223> n equals a,t,g, or c

<400> 372

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gccacgcccg gcttatttcg tatttttagt agagacgggt ttccgcatgt tggtcaggct 60
ggtctggaac tcctgacctc aagtgatcca cctggctcag cttaccgaag tgctgagatt 120
ccgggtgtga gccaccgcgc cttagcctct aaacttttaa ataatcgtga aatgtatgcg 180
cagctgaagc gaattcagct atttncctct acccttngtg tggaatttaa aatactgaac 240
ttgtgagatg aacctgggtg gcaccagttc tcaaacttct tggtcacagg acgcttgcac 300
tctcttaaaa tgtactgagg acacctaaaa gcttttgctc actgttggtt actactgcta 360
tttactaaca tagaaattaa acatattaaa atatt 395
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<210> 373

<211> 468

<212> DNA

<213> Homo sapiens

<220>

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<222> (380)

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<220>

<221> misc feature

<222> (421)

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<220>

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<222> (449)

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<222> (450)

<223> n equals a,t,g, or c

<220>

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<222> (464)

<223> n equals a,t,g, or c

<400> 373

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gggggtttca acatgttggc caggctggtc tcgaactcct gacctcaggt gatccatccg 60
ccttggcctc cttaaagtga gggattacag gcattaccca ctgtgccag tcactataga 120
gattattaca ttacaataaa gaaaaaaact ttcaggactc tcatggagag ctgaagtgtt 180
catgaatatc aagcagaaca ggagttaact gaatagactc aaccaataga aaattaaagc 240
aatttttttt ttttttgct taaaagattg ctgatccttt ttgtttctca gagttaagaa 300
aacttttctt ttgagctatt ttcagctttt aacaattgag taaagtatat tcctgtgaac 360
aaaatttgaa gcatatttgn ttctctttac ccgatttctc cagatttttg aaactatttg 420
ngagtattct taacttaatg gcaatatann tatttgcata agtncaat 468
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<210> 374
<211> 499
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (265)
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<220>
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<220>
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<220>
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<222> (319)
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<220>
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<222> (338)
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<220>
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<222> (372)
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<220>

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<220>
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<220>
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<220>
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<220>
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<220>
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<222> (490)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (491)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (492)
<223> n equals a,t,g, or c

<400> 374
aattcggcan agcaccacac ccggctaatt ttgtattagt agagatggag tttcaccatg 60
ttggccaggc tggctcaga ctctgggct caagtaatct cccacctca gcctcccaca 120
gggctggctg tcaattgttt ttaagttgtt aaagtgtctc cggggaagct aaacttaaca 180
caggactggg agagacacca ccttcctgtg ggtggggctg cctcctacct ggagcagcac 240
tcatctccac ctgggcactc cgtgnaaagg ggaggagac tctntggctg ncagatgagg 300
gtggccctgt ccgtgtgtnc ccagggtgg gtcaacanca tttnttcctn ttgccagggt 360
tagatggatt tnatttttnc cggggggaag ggaaggngct ctggtttngg ggatttgtna 420
atttctgggn aanacnangt tttgnaaaga attttttagg gttnggtggg gtgtaggaan 480
tntnctntn nnaggtttc 499

<210> 375
<211> 493

<212> DNA
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<220>
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<222> (65)
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<220>
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<220>
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<222> (162)
<223> n equals a,t,g, or c

<220>
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<222> (210)
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<220>
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<220>
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<220>

<221> misc feature

<222> (359)

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<220>

<221> misc feature

<222> (360)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (366)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (370)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (375)

<223> n equals a,t,g, or c

<220>

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<222> (387)

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<220>

<221> misc feature

<222> (391)

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<220>

<221> misc feature

<222> (415)

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<221> misc feature

<222> (424)

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<220>

<221> misc feature

<222> (452)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (464)
<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

<220>
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<222> (486)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (488)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (491)
<223> n equals a,t,g, or c

<400> 375
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cgggnggttg agattncagt gagcccagat cgcaccactg cactccagtc tggcaacaga 120
ggcaagactc catctcaaaa agaaaagaaa agaagactct gnacctgtac tcttgaatac 180
aagtttctga taccactgca ctgtctgagn aatttccaaa actttaatga actaactgac 240
agcttcatga aactgtccac caaggccaag cagagaaaat aattnatttc catggggact 300
taaatggaac ttntgngggg ttattathtt ncataathtt tttatttgga aatttttgnn 360
tggttncttn taaanggtct tggtttnccc ngattttcag ggaaactttt tttgnttttt 420
aggntttcca cagtttacgg caatttgggt tnaaatatac ttnttggggg accaaaattg 480
ggggntntg naa 493

<210> 376
<211> 364
<212> DNA
<213> Homo sapiens

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<222> (30)
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<220>
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<222> (56)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (134)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (192)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (202)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (203)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (204)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (205)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (206)
<223> n equals a,t,g, or c

<220>
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<222> (207)
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<220>
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<220>
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (212)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (214)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (228)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (271)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (311)
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<220>
<221> misc feature
<222> (338)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (354)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (361)
<223> n equals a,t,g, or c

<400> 376

tataaaatgc tgaaactccg tctctactan ggatacaaaa aatagccagg cctggnggca 60
ggcgccctgta atcccagcta ctcgaggaggc caaggcagga gaattgctcg aactcagggg 120
gtggagggttg cagngagttg agattgtgcc attgactcc agcctgggca acagagcaag 180
actctgtctt angaaaaaaa annnnnnnnn nnangaaaaa caacatantg gggtttctgt 240
caatctgtcc tcggctgccc ttctcatttg ntgatgggac cttgaaagca agcttgctag 300
gtgccctctg nggctccagc ctttaccgga agtgtggngc atgtttttaa cttnagggaa 360
ncgg 364

<210> 377

<211> 152

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (18)

<223> n equals a,t,g, or c

<220>

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<220>

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<222> (83)

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<220>

<221> misc feature

<222> (109)

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<220>

<221> misc feature

<222> (124)

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<220>

<221> misc feature

<222> (125)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (147)

<223> n equals a,t,g, or c

<400> 377

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atctgttact gatcatgtaa acntgctcac accgctggtg aagcctgtna cagaacttta 120
cctnntgttt tcgagcctat gagtgcnctc tc                                     152
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<210> 378

<211> 647

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

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<222> (41)

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<220>

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<222> (79)

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<220>

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<222> (80)

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<220>

<221> misc feature

<222> (490)

<223> n equals a,t,g, or c

<220>
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<222> (633)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (647)
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<400> 378
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gggtcgaccc acgcgtccnn gcaaattaga tacaaagtaa gcagaagaaa agaaataaga 120
attagagcag gaatcaatga agttgaaaat aggaactcaa tagagacaat caacaaagtc 180
aaaaagctgat tatttgaaaa gattaataaa atcaataaac ctctaaccag gctaactaag 240
caaaaagaga aagaacataa attgctaata tcagaaatga aagagtggac atcactacag 300
atcccatgga cattaggagg ataataaagg aatgctctga acaactgtat gctcacatat 360
ttgataacct agatgaaatg gagcaagtcc ttgaaagaca caatctgcc aactcacac 420
aagaagaaat agaccatctg aataggccta tatctatctt aaaatttgaa tcaataatta 480
ataacttttn caaacagaaa gcactaggcc cagatgtatt tgctgggtgaa ttctaccaa 540
catataagga agacattata ccaattatct ataattctct ttggaggata gaagcagaag 600
ggaatacttt ctggcttatt ttgggagggc agnattactc taatacn 647

<210> 379
<211> 416
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (231)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (314)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (359)
<223> n equals a,t,g, or c

<220>
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<220>
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<222> (362)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (368)

<223> n equals a,t,g, or c

<400> 379

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actcagctaa gagcatcgag ggggcgccga gaggaaggg gcggggacgg gcggtggctc 120
gcctcgcggc ggaccgccc cccgctccca agatccaaact acgagctttt taactgcagc 180
aactttaata tacgtattg gagctggaat taccgcggct gctggcacca nacttgccct 240
ccaatggatc ctcgttaaag gatttaaagt ggactcattc caattacagg gcctcgaaaag 300
agtcctgtat tgtnattttt cgtcactacc tccccgggtc gggaatgggt aatttgcggn 360
cntgctgnct tccttggatg tgggaaccgt ttctcaggtc cctctccgga atcgga 416
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<210> 380

<211> 310

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (107)

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<220>

<221> misc feature

<222> (157)

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<220>

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<222> (180)

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<220>

<221> misc feature

<222> (201)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (269)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (296)

<223> n equals a,t,g, or c

<220>
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<222> (299)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (301)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (310)
<223> n equals a,t,g, or c

<400> 380
gcactaccat acgtatttca attaccagtg aaagaagcac tccattaaca actctccttg 60
tcagcaccac acttccaact agctttcctg gggccagcat agcttcnaca cctcctcttg 120
acacaagcac aacttttacc ccttctactg aactgnctc aactcccaca attcctgtan 180
ccaccaccat atctgtatca ntgatcacag aaggaagcac acctgggaca accattttta 240
ttcccagcac tcctgtcacc agttctacng ctgatgactt tcctgcaaca actggngcng 300
natctaccn 310

<210> 381
<211> 247
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (216)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (225)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (226)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (228)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (238)

<223> n equals a,t,g, or c

<400> 381

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ccagtaagcg ggcccggcct gcggaggtgg gcggcatgca gctccgcttt gcccggtct 120
ccgagcacgc cacggcccc acccggggct ccgcgcgcgc cgcggggtac gacctgtaca 180
gtgcctatga ttacacaata ccacctatgg agaaanggcc ccccnngngg aacgcatnag 240
atagtgt 247
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<210> 382

<211> 197

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (85)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (132)

<223> n equals a,t,g, or c

<400> 382

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cctagcctca agtgatcctc ctgtntcaac ctcccaagta ggattacaag catgcgccga 120
cgatgccag antccagaac tttgtctatc actctcccca acaacctaga tgtgaaaaca 180
gaataaactt caccag 197
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<210> 383

<211> 418

<212> DNA

<213> Homo sapiens

<220>

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<222> (345)

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<220>

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<222> (372)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (382)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (392)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (405)
<223> n equals a,t,g, or c

<400> 383
ggcttttacgg ctgcgagaag acgacagaag ggggccaacc gctgtttcag cccctagctg 60
gattccacca ttgctgcagc tgetccacag cccttttcag gacccaaaca accgcagccg 120
ctgttcccag gatggtgatc cgtgtatata ttgcatcttc ctctggctct acagcgatta 180
agaagaaaca acaagatgtg cttggtttcc tagaagccaa caaaatagga tttgaagaaa 240
aagatattgc agccaatgaa gagaatcggg agtggatgag agaaaatgta cctggaaaaat 300
agttcgacca gccacagggt taccctcctgc caccttcaga ttttncaatg gaaagccagt 360
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ggcaagggac cctgaaggcc aagaacttca agaagagatg cctgcaggcc accatcaccc 180
aggacagcac ctacggggat gaagactgcc tgtacctcaa catttgggtg ccccagggca 240
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tggggtccgg ccatggggcc aacttcctca acnactacct gtatgacggc naggagatcg 360
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acgacgctcc ccgagccgtg ttctcttcca tcgtcgggcy ccccaagaca ccagggcgctc 180
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gaagccctca gctcggaccc tgcccagccc atggatgaga angagtatat cgatgcttcc 360
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cctgaggagt tggatgactc tgactttgag acaggaggat ttgatgtcag aagcaggacg 480
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 caggacagac ggccaggatc acctgctctg gagatgcatt gccaaagcaa tatgcttatt 180
 ggtaccagca gaggccaggc caggcccctg tgcagggtgat atataaagac agtgagangg 240
 cctcaaggat ccctgagcga atctctggct ccagctcang gacaacagtc acattgacca 300
 tccagtgggg tccaagcaaa aaacaaagct gaatattact gtcatccaca aacacantgg 360
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 aactccccca acagcgaacc gccactcct aaganggcct gggcagaaac ctctcggcct 180
 ccagagacag agccgggacc tcctgccccca aagcntcccc tacccccacc tcancggggc 240
 cccgcnggga actggggccc ccctggggac taccagatc gtnggggtct tcctgcaagc 300
 cccagcacc ttgaagttga ggatgaggct tggcggcacg acgaaagcan tcgtcttttg 360
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acctggagat caccaagaan atgggcagca nctccatgaa gtggagcctg anaactaact 180
tcctgcgcta ctggaccctc ncctatctgg ctctgcccac agtgaaccga ccangangcc 240
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acaccatccg ctcggttcc atggactcac tcacctttgt caaggccatg gatgactcca 240
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acaccgaccg ggccatccgc ggggaggcct ttgatcgaca cctgctgggc ctgaagctgc 360
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cgtggtcccc acggctacgg gnctgntata acccatggag gccacataac ttctccctgn 540
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ttcctgctgg cagacgtgtg gtctggcttt ctgccaagca tctacctcgt ctccctgac 240
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ctggagacca gtgatgagca ccgggagttt gcaatggggg gcaactgcat ttgaaaaat 360
ggggattncc tgtcgggggc tgggnttgct ctgnagattc cttggcagtc tctgaaatcg 420
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ccaatncagc tccgcctcca ggggaaggtg cggatgactt ggagggggag ttcactgagg 240
aaacgatccg naaccttgac gngaactact acgacccta ctacgaccn accagctccc 300
cggtcggaga tcggnccggg aatgccggng aaccaggata ccatctatgn agggatttga 360

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tttgtaataa tnttcttcat agtnatnacc ctcataatng gtggntttgg ncaactgact 180
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gntgaggtct tcgaggcttg ggaacaagtc aacaaactta cacaggcttc cgaggaggag 540

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<211> 252

<212> DNA

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cgcaggaagc ccacggtggt cactcgagtc tccgccttca tcgactggat tgaggagacc 180
atagcaagcc acttagaaac caaaggccca ccttggaat tnctgaatcg atcccacatc 240
cttgaaatta aa 252

<210> 397

<211> 543

<212> DNA

<213> Homo sapiens

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 agaaagagag gatctttatg caaaaattca ggctggtgaa ggagagactg ctgttcttaa 180
 ccagttacaa gaaaaaaacc atacactaca ggagcaagta actcaactaa cagagaagct 240
 ggaagaatca gtcagaaagt tcataaaciaa gccaggagg aatttgcatt gaccaggtag 300
 aagagcagaa gggcacntct tagagctggc acaagaccgt gttccttttc cctagaaact 360
 agtggttcat ggaattttaa ttagtccatt taatggaang ccaggagaa ggttctcccc 420
 agcttggacc ttaccgggta aaggccaaac cggaantttt actttcagcc gaggccgcaa 480
 aactgggtcc aagggcnggt cttcagatcc atttgggnca cngttccaan ggctttacca 540
 ggt 543

<210> 398
 <211> 284
 <212> DNA
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tcccacaatag tgcttatggg ggccctgant ttccagtag cttcttttct cccaccggga 120
ctccccttna attnagcagc ctattcctnt cccaagcttc gtggaagctt tccccctgct 180
tccttgtaag gccagggaag tgtntgaatg cggagaacag nnactccact gtggcgangg 240
gacaggacag gccactacct atgataacgc ctgcggnctc tttt 284

<210> 399
<211> 427
<212> DNA
<213> Homo sapiens

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 atgaacaagt gtcacgctgg ccatctcaat ggagtttatt accaagggtg cacttactca 180
 aaagcatcta ctcctaattg ttatgataat ggcattatct gggccacttg gaaaaccggg 240
 tggttattcca tgaagaaaac cactatggaa ggtaaatccc attcaacaga ctcacaattg 300
 gaggaaggac agcaacacca cctgggggga gccaaacagg tcagaccaga gcaccntgcg 360
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 ctttttg 427

<210> 400
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 <213> Homo sapiens

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 aagttcaatc tggaaacatc aatgctgcca agactattgc agatatcatc cgaacatggt 180
 tgggacccaa gtccatgatg aagatgcttt tggacccaat gggaggcatt gtgatgacca 240
 atgatggcaa tgccattctt cgagagattc aagtccagca tccagcggcc aagtccatga 300
 tcgaaaattag ccggacccag gatgaagagg ttggagatgg gaccacatca gtaattattc 360
 ttgcagggga aatgctgtct gtagctgagc acttcctgga gcagcagatg caccacacag 420
 tgggtgatcag tgcttaccgc aaggcattgg atgatatgat cagcacccta aagaaaataa 480
 gtatcccagt cgacatcagt gacagtgata tgatgctgaa catcatcaac agctctatta 540
 ctaccaaaagg catcagtcgg 560

<210> 401
 <211> 584
 <212> DNA
 <213> Homo sapiens

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<222> (425)
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<222> (448)
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<222> (582)
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agaacttgga ccttctcgct tctgtcctcc gtttagtctc ctctcggcg ggagccctcg 120
cgacgcgccc ggcccgagc cccagcgca gatggccgcg tttgaaggat gacctctagg 180
aagaaaagtgt tgctgaaggt tatcatcctg ggagattctg gagtcgggaa gacatcactc 240

atgaaccagt atgtgaataa gaaattcagc aatcagtaca aagccacaat aggagctgac 300
tttctgacca aggatgtgat ggtggatgac aggctagtca caatgcagat atggggacac 360
agcaggacag gaacgggttc agnctctcgg tgtggccttc tacagagggtg caaactgctg 420
cgttntggta tttgatgtga ctgccccnaa cacattcaaa accctanata gctggagaga 480
tgaagtttct catncaggcc agtccccgag atcctgaaaa ctttccatct ggtgggttgg 540
gaaacaagat tgacttttaa aacanacaan tgggcacaaa nngg 584

<210> 402

<211> 334

<212> DNA

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<222> (332)

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tgctgatgat ttcttccaag gaaccaaggc ggccctggct gggggaacca ctatgaatca 120
ttgaccacgt tgctcctgag cctgggacaa gcctgctcgc tgcctttaac cagtggaggg 180

aatgggccga cagcaagtc tgctgtgaac tactctctgc atgtggacat cagcgagtgg 240
nataagggca tccagggagg agatggaagc gcttgtnaaa ggatcacggg ngtaaatnc 300
ttccttggtg ttacatgggc tttttgaaaa gnat 334

<210> 403

<211> 378

<212> DNA

<213> Homo sapiens

<220>

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<222> (370)

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<400> 403

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tggcccatct cgggcagaag ctggcagtgg tgggcctggc ttcaccttca ccttccgcag 120
ccccgaggag gtcttcggg aattctttgg gattggagac ccttttgag agctctttga 180
tgacctgggc cccttctcaa gagcttccag aacgggggtc ccgacactca agccccttct 240
ttacttctct tcctccttcc ctgggcatcc gattctcctc ctcacttct ccttcaatcc 300
tgggctggtg ctttcctct gtttctactc tacacctttg tccaaggaag cccatcccca 360
ccccaaatcn tgaaaaac 378

<210> 404

<211> 300

<212> DNA

<213> Homo sapiens

<220>

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<222> (232)

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<222> (242)

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<222> (260)

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<222> (275)

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agcgaagctt ttttctcaga atgaagtgtt ccctaactag ccgaggaaga actatgaaca 120
taaagtctgc aacatggaag gtattgcact gcacaggcca cattcacgta tatgatacca 180
acagtaacca acctcagtgt gggataaaga aaccacctat gacctgcttg gngctgattt 240
gngaaccat tcctcaccn tcanatattg aaatnccttt acataccaag actttcctca 300
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<210> 405

<211> 502

<212> DNA

<213> Homo sapiens

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<222> (285)

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<222> (491)

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<400> 405

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gctctggtc ccaggtgccg aatgtgacat ccagatgacc cagtctcctt ccaccctgtc 120
tgcatctgta ggagacagaa tcacnatnac ttgccgggcc agtcagncta ttgaaaactg 180
gttggcctgg tatcagcagn agccagggaa accccctaaa ttactcctaa tctctgatgc 240
ctcctctttg gngagtggag tcccatcaag gttcagcggc atggntctgg gacggaattc 300
actctacca ttccagcct gcagctgaag nttttgcaat tattactgcc aacagtttat 360
agtatcctt acattttggc cagggcccag tggggtttca aagaattgtg gntgcaccat 420
tgtnttaatt ttcccgctt tgntggggcn ttnaatnggg actgccctnt tgtgtgcent 480
gganaatttt ntcccggggg cc 502
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<210> 406

<211> 289

<212> DNA

<213> Homo sapiens

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<222> (237)

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<222> (267)

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<400> 406

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cagttccatt cccagatagc agcccagacc tncgcttcag ttctagcaga agaattacat 120
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aaagtgattg cagaaaagga taagcagata aaacagactg aagattcttt aacaagtgaa 180
cgtgatcggt taacaagtaa agaagaggaa cttaaggata tacagaatat gaatttntta 240
ttaaaagctg aagtgcagaa attacangcc ctgnnaaang agcaggctg 289

<210> 407

<211> 434

<212> DNA

<213> Homo sapiens

<220>

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<222> (301)

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<400> 407

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cttcaacatc attggacctg gtattgtgct ttccaaccct gaccgaccat gtcaccagat 120
tgatcttttc aagaaagcag gatggactat cattactcct ccaacaccaa tcatcccaga 180
cgatcatcca ctctgggatg tcatccaaat ggctttccat gaatgtctta atgctagatg 240
aaaaacgtgt tatggtggat gccaatgaaa nttccaattc aaaaanatgtt tgaaaaagct 300
nggtntccta ccattaaaag ttnacattcn ttatgnccat tcccctggga agaagnttcc 360
attggctgga cctgcgaatg ttcnggggcc aaagcacctt acaanccctc tttggantga 420
acaggcctaa tgga 434
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<210> 408

<211> 458

<212> DNA

<213> Homo sapiens

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<222> (451)
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gccgnttggg caagatcaca ggtcttgat ccaacggggc cgtgcnccn agataanccn 180
gaagangttc ggtgggancc atcnnacgcc gtgtgtgtng atgtgattca cacatattct 240
tcncccatc ntccnccccg ntgtttcaga atgacccaag nagtgngcca tctggatttc 300
nntccangtg gaagaaaaga cngcccgnat gtaaaaaanat gttcttncca ccatnactga 360
tattgatgga atataggaaa gattggttgg ttttttttct ttccctcacc aaanaaactt 420
cttattttta cnccggccnc ttccccacc ntganggt 458

<210> 409
<211> 546
<212> DNA
<213> Homo sapiens

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ctgccgcggg cggacacgcc agaggaggan gccggggaat ggccgcggtg tggcagcaag 180
tcttagcagt ggacgcgagt ttcggacgca gtatatccgc ggcgcagcca gctgctgcgg 240
gaanaatgcc aagggtgggc acccccagcg ctgcttcggg antacctgaa gcttcngggg 300
cntnttggtg ggccannnct acggncctc tccnaancaa ggagtgtcc gtgcctataa 360
caacagcatc gtccggaagt anccgcactt actctnggan cggntggaag gacttnggaa 420
gaatnatccc ccnggnccct nggggggccc gtgggggcanc ctcctttcct tttcaaaaaa 480
aaangcnccc canccanggt ggnggggggn aanattnaaa ccggggggccg tcttnttaaa 540
aaaaan 546

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ctccgggagg gacagatggc caatctctcc ccttccaaag caggccctgn tccccgggca 180
gcctnncgcc gaggggccca ncccccaacc cacangcagg gagg 224

<210> 411

<211> 584

<212> DNA

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aagcaagaga tggctagtgc ttcacccagc caaagangtc gaagtgggtc tggaaacttt 180
ggtggtggtc gtggaagtgg tttaggtggg aatgacaact tcggtcgtgg aggaaacttc 240
agtgtgctgt gtggctttgg tggcagccgt ggtggtggtg gatatggtgg cagtggggat 300
ggctataatg gatttggtaa tgatggaagc aattttggga agtgggtgga gctacaatga 360
ttttggggaa ttacaacaat cagtcttcaa attttgggac catgaaggga agaaattttg 420
gaagcagaac tctggcccta tggcgggtgga agccaatact ttgcaaaacc ncgaaaccag 480
gtggctatgg cggtcengca catcagtagc tatgcantgg canaaaattt aattaaggaa 540
gaatctctac taatctatca ctctaaaaac aaaacnctct ntca 584
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<211> 342

<212> DNA

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<222> (171)

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gccctggcag gtctccctgc agtacagctc caatggccag tggtagccaca nctgctggagg 180
gtccctggat agccaacagc tgggtcctna cggctgccca ctgcatcagt tcctccggga 240
tctaccgcgt ggatgctggg ncagcatgaa cctcttacgt tggcagagtt ccggttcggt 300
gggcctncaa tgtctttnaa gattgttggt gcaanaagga nt 342

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taatatatta ccttgagttg ttccaaagggt cttatgttta ttggtggaa ttttccaata 180
gcaatgagga gtcaaggaag agtttctac tcaccggcag catctggaat agcagaccaa 240
ctttcctcat gctggggagc aaatcangtg ttgcagctaa ggggccatgc aagaagagct 300
gcaatggcca ttcccttcac ctggctacct cctctactct acagggcacc gagcccaatg 360
gagaagggtgn gagtggagaa gcagngatgt gatgaattac tttgcatggg agagaaatcc 420
ctccaccatc tcaagccccg gccactgtgc gagcctgtcg agaagcacag catttcttna 480
ggtggaaaga ttataactgt aatgtgaggg taccctatgt ctgcaagntc actgactagt 540
gcangaggga agtcagcanc ctgtggtt 568

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gacccttct tggaaatacaa caactacggc tgctactgtg gcttgggggg ctcaagcacc 180
cccgtggatg aactggacaa gtgctgccag acacatgaca actgctatga ccaggccaag 240
aanctggaca gctgtnaatt tctgctggac aaccctgaca cccacaccta ttcatactcg 300
tgctctggct ccgcaatcac ctgttaccac caaaaacaaa natnttaagc ctcccntttt 360
gcaacttgcn aaacgcaacc ttccatctt gcttttccaa aactcccttt taacanggcc 420
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ggcgcgaggc tgctgctgct gnncccggcc cgc 213

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 ggcattggacg ataccctggt ccagttgaag ttcacggcgn aganactggt agaaagctgg 180
 ccaagaaggc ggtgtaagga ctccaaggcg ganaggacca aagtgaagaa ggccttntg 240
 cagaaaaatg tagagtgtgc cntgtgtat gccgagaacg acatccgtaa gaggaacgag 300
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 gctcatcccg gtggccgccc cgcaggagcc tcccggagct gcttgttctc agaacacaaa 180
 caaacctgt gaagagtgcc tgaagaacgt ctctgtctt tgggtgcaaca ctaacaaggc 240
 ttgtctggac taccagttta caagcgtctt gccaccggct tccctttgta aattgagctc 300
 tgcacgctgg ggagtttgtg ggtgaacttt gaggcgctga tcatcaccat gtctngtagtc 360
 ngngaaaccc ttctctgggc attgncatct gcttgttgct tgctgnttca 410

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<211> 183
<212> DNA
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aatcacnctg cccagaaggc accaatgcct atcggtccta ctgntactac tttaatgaag 120
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gng 183

<210> 419
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ataattttta attatattga cattatcatc ttttatttta ctccataaat gattatgtga 180
gggaatttca taacatggga ccaccaccac cttggcaagg aatgccccct taccagga 240
tggaacaacc tccacaccat ccttactatc agcaccatgc tccacctcct caagctcatc 300
ccccttactc nggacatcat ccagtaccac ntgaagcaag atncagagat aaacgaattt 360
cctgattatg atatgaaggg tggatgattt ccttcntcnc acacaaaactg ttgtcagtgg 420
ccggaaaatt aaaccctga aaanaaacg ggacaan 457

<210> 420
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gtgatgatca gctccctggg agacgtcaag ggcaatggca aagggggttt tgtgctgctg 120
gatggggaga cggttcgaggt gaaggggaca tgggagagac ctgggggtgc tgcaccgttg 180
ggctatgact tctggtacca gcctcgacac aatgtcatga tcagcactga gtgggcagct 240
cccaatntnt tacgagatgg cttcaacccc gctgatgtgg aggctggtga gaatccccc 300
atgtgncagc aggagccttn gggnctacat ncccttgntt ttntggttcc aaatctttcc 360
acccccacaa tttgntnnn nattgggccc agaattctaa agnggggntg gccntaggat 420
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<210> 421
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<220>
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<400> 421
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cgggtcgacc cacgcgtccg gcacggtcc gactactcca aggattacct cacagacctc 120
atcaccaatg acagcgtgac ttcttccgca cgtccaagaa gatgtaccg cacaggccag 180
tcctcatggt catcagccat gcagccccc acggcctga ggattcagcc ccacaatatt 240
cacgcctctt cccaaacgca tctcagcaca tcacgccgag ctacaactac gcgccaacc 300
cggacaaaca ctggatcatg cgctacacgg ggcccatgaa gcccatccac atggaattca 360
ccaacatgct ccagcggaag gcttgacagac cctcatgtcg gtggacgact ccatggagac 420
gatttacaac atgctggttg agacgggcga gt 452

<210> 422
<211> 366
<212> DNA
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ctgcgggagg acttcagtct gagtagcagt gctctcattg gcctgctggg catcgcagtg 120
gccattgccg cggtcacgtg catcagcctg gtgatgctga ggaaagangc agtatggcac 180
catcagccac gggatcgtgg aggtttgatc caatgctcac cccagaaaaa cgtccctgaa 240
caagatgcag aaccatgcta tganaaccga ctaccaatac tggacagatc aattagggtg 300
caggacgcgc acctgcgagg atcagtngcc gaaatccaca tccgatcnat gcaacacacc 360
gtgcag 366

<210> 423
<211> 81
<212> DNA
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<222> (42)
<223> n equals a,t,g, or c

<220>
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<222> (70)
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<400> 423
gattctntcaa cggtcaccaa gaaaagaaca anttccttgc tncacaagga ccaaaagaag 60

aaacggtgan tgatttctgg c

81

<210> 424

<211> 383

<212> DNA

<213> Homo sapiens

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<220>

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<222> (7)

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<222> (276)

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<222> (315)

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<222> (344)
<223> n equals a,t,g, or c

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<222> (359)
<223> n equals a,t,g, or c

<220>
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<222> (383)
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caccctctct agtccatgcc aggtgcctt ctgcttgcca tggctcacct ctccaatctc 120
ccctaaaccc acccctacca nggtgacaga actgggttcag cagctgacag gccaggcacc 180
tgctcctggg gcagcgggtg ttggtgctag agctgagctg tgaagggtgac gacgaggaca 240
ctgccttccc aactctgcac tatgagctgt gacaangcag ccaacctgtc anctagctca 300
atggagcccc ggaatnccaag ccctgcattg taagcccaca gtangcatca ataaatgcnt 360
gttaaaggaa aaaaaaaaaa aan 383

<210> 425
<211> 105
<212> DNA
<213> Homo sapiens

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<222> (34)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (45)
<223> n equals a,t,g, or c

<220>
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<222> (74)
<223> n equals a,t,g, or c

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<222> (77)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (82)
<223> n equals a,t,g, or c

<400> 425
ggctcctgctt ctccgcacgc caccttaggc ccgnagccgt gccgngtgct cttcagcatg 60
tccttcaccc cgnggncga gngattccga cttcccatc caciaa 105

<210> 426
<211> 237
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
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<222> (56)
<223> n equals a,t,g, or c

<220>
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<222> (72)
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<220>
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<220>
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<222> (198)
<223> n equals a,t,g, or c

<220>
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<222> (230)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (236)

<223> n equals a,t,g, or c

<400> 426

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cggcggcgct cncgggctcc ggctccgget tctgtgttg ctcttctccg ccgnggcact 120
gaatccccac aggtaatggg tcagaatctg tttagcaaaa gacgtgacag taatcgaggg 180
agaggttgcg aaccattnag ttgccaagta aatgaagagt gacgactctn taattna 237
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<210> 427

<211> 407

<212> DNA

<213> Homo sapiens

<220>

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<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (65)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (127)

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<222> (131)

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<220>

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<220>

<221> misc feature

<222> (164)

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<220>

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<222> (208)

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<220>

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<222> (255)

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<220>

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<222> (320)

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<220>

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<220>

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<222> (343)

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<220>

<221> misc feature

<222> (401)

<223> n equals a,t,g, or c

<400> 427

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ttttnatggt ctgagcccc ctcctgttcc catctccact gcccctcggc cctgtttgtg 120
ccctgcntct naaaggnggg ggctcagatg gtgcggcctg agtntgcggc cggcggcatt 180
tgggatacac ccgtagggac ggggtgtntc ccaggcctaa ttccatcttt ccaccatgac 240
agaaatgccc ttttnaaggc tggcctcctt ggcgcctgtt cccacaggcc cccgcagcgt 300
gagccacgat gcttccccan accccaccca ttcccgnaac acntacttac tgtnttggtg 360
gcccgccag agtgaggaag gagtttggtc cacatggaga nggcggt 407
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<210> 428

<211> 235

<212> DNA

<213> Homo sapiens

<220>

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<223> n equals a,t,g, or c

<220>
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<222> (34)
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<220>
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<222> (46)
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<220>
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<222> (116)
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<222> (146)
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<220>
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<220>

<221> misc feature
<222> (199)
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<220>
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<222> (211)
<223> n equals a,t,g, or c

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<222> (212)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (227)
<223> n equals a,t,g, or c

<400> 428
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ctnaagaacc agattcaaga acgccaggaa agcatgtgca gatgcaactn tctctnaant 120
ncacaaacaa catcgaccca gtgggnaaga atccaaatga gacacaagga ggtcactgng 180
gggggcacct gggccangna tctgacggcc nngcactggg ggcacanact ccagg 235

<210> 429
<211> 164
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

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<221> misc feature
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<223> n equals a,t,g, or c

<220>
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<220>
<221> misc feature
<222> (141)
<223> n equals a,t,g, or c

<220>
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<222> (162)
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<400> 429
ctcnnngaatt ttccagatgc agagcagcgg ttcgnngncc caggcgcggt ctgggcgact 60
gtgcgtggcg ctggaggcgc tggcggccgt tggccgcngg gagggcccaa catctgnacc 120
acgcgaggtg tgagctccng ncagcagagc ctggtctgag ancc 164

<210> 430
<211> 515
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (412)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (451)
<223> n equals a,t,g, or c

<220>
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<222> (474)
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<220>
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<222> (485)

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<220>

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<222> (504)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (513)

<223> n equals a,t,g, or c

<400> 430

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gtccgtgttg ttgctttccc accctgcagc gcactggact gaagagcttc cctcttccta 120
ctgcagcatg aactgcaagc tccctcagc ccatcttget ccctcttcag cccgctgagg 180
agctttcttg ggctgcccc atctctcca acaagggtga catattctgc gtagatgcta 240
gaccaaccag cttcccaggg ttcgtcgtg tgaggcgtaa gggacatgaa ttctagggtc 300
tcctttctcc ttatttatte ttgtggctac atcatccctg gctgtggata agtgcttttg 360
tgtagcaaat gtcctctcct taagggata gggctccctg agtttgggag tngtgaagta 420
ctacttaact gctgtcctgc ttggctgtcg ntatcggttt cttggtgatg ttgngctaac 480
aattnagaaa gtaccacggg tttnaattct tgnngg 515
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<210> 431

<211> 310

<212> DNA

<213> Homo sapiens

<220>

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<222> (133)

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<220>

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<222> (199)

<223> n equals a,t,g, or c

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<222> (205)

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<222> (208)

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<222> (288)

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<222> (297)

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<220>

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<222> (300)

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<222> (302)

<223> n equals a,t,g, or c

<400> 431

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tgtctttcct gttgtggggc ctcagccagt accatgatct gagaccgaac ggcgtgtttt 120
ttctctaact tgnaaaaata ggtcacgggt ctagatcaca ttctcgatcc agaggaaggc 180
gatactctcg ctcacgcanc aggancangg ggacgaagggt caaagggtcan catcttcttc 240
gacggatcaa gatctatctc ccttcgtaaa tccaagatca actttcantc aagagtntan 300
gnttggtttt                                     310
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<210> 432

<211> 205

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

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<220>

<221> misc feature

<222> (198)

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<220>

<221> misc feature

<222> (199)

<223> n equals a,t,g, or c

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<222> (200)
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<220>
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<222> (204)
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<400> 432
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ctcctctggg ctcaaagcag ggaggcctct ctcttcctga atccgatgga aggggtgggag 120
gcctagggca ccttccggta ccttttccaa agatgccttc ntccgtccct gcatgacctg 180
gggtgagtcc ttctcggnn tgtnc 205

<210> 433
<211> 424
<212> DNA
<213> Homo sapiens

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<222> (321)
<223> n equals a,t,g, or c

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<222> (333)
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<222> (406)
<223> n equals a,t,g, or c

<220>
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<222> (414)
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gcttgacttt ccttttttga caataaaaga gtcaagatag caccgaggcc aggagaaagg 120
gaacgtgtaa gtttttatat atacagtttc caagccaact tcggggaagc cttaaccttt 180
ttacgggggtg ggggtgggga ggtaaaaagt tgtgatctct gagaaaataa ccgccactac 240
tctggaagtg ttcacagca gttatacaaa accgtgattt tggctgctcc ctaacaantc 300
gtgattgcat gattcgantg ncagtctgta gangaattgg gcttgggtgt acgtgtgttt 360
ganaactggc aggtgggaaa agcagaacat gtgtnaaaac cagtgntaag cttngtggtt 420
gggg 424

<210> 434
<211> 415
<212> DNA
<213> Homo sapiens

<220>
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<222> (354)
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<220>
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<222> (375)
<223> n equals a,t,g, or c

<220>
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<222> (378)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (385)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (391)
<223> n equals a,t,g, or c

<400> 434

gcgaaaaatc agttggcaat atacagtgtg ggaactgtac tgtgatcatt ggctaaccac 60
gatgggtgac agtttatgat ttcaaagact caaaggcggc ttgagtccta caatgtccta 120
ctcataaaaa tggaaagcat ggcagcctca ggttggttaca gagtactcta ctccaaagta 180
aaagttattc tctgagaaaag tgcttactgc cttttctgtt ctctagtttg cttgtttaaa 240
catttactcc acaaaattgc tcaaacttac ccattcttga atatctagcc tctgggatga 300
gacagatgat ctttctccgt ttctactttt tatagaatac agctacctac ccangcaata 360
tgaagatttt atttntanaa cctgncattt nccttaatgc atttgctatg acttt 415

<210> 435

<211> 612

<212> DNA

<213> Homo sapiens

<220>

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<222> (442)

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<220>

<221> misc feature

<222> (523)

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<220>

<221> misc feature

<222> (591)

<223> n equals a,t,g, or c

<400> 435

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atgagagagc catgggggtg agcacttgaa acactgcctt ggggccttgg gttaggggag 120
cctttgtctt tagtgcagga cacacatatg cttacaccta ctttatcac cattcgttca 180
tgaatcatgc ctagctccat ccttgccctg ggacctacta ggccttcac caactgggaa 240
atggggagaa gcaaaagctg cctcatgctc ttcagggta gttcctatct ggagttgacc 300
aggcctaccc cagttgccat tcctgaaaaa tctcagctgc caggctgcct ttaggggtccc 360
tgtagaccca ggagagttga gaggggtggg gagacagaga gaatagagag gatgtgggaa 420

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ctggcagagg gccggagcgc angagttcaa gtggaggaat gctggctttg aaccctntac 480
actgctggnt gnatgacctt ggacaagcac ttcacctttt tgnggcttaa catcctcatc 540
tataaatggg gatctctgaa ccttctacct actacttaca ggctgtgtga ngaccaggag 600
tttggatttg ga 612
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<210> 436

<211> 520

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (156)

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<222> (185)

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<220>

<221> misc feature

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<223> n equals a,t,g, or c

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<220>
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<220>
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<222> (283)
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<220>
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<222> (292)
<223> n equals a,t,g, or c

<220>
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<222> (295)
<223> n equals a,t,g, or c

<220>
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<222> (300)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (304)
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<220>
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<222> (316)
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<220>
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<220>
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<220>
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<220>
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atgggaaaca ttagggctgg gttcatgnaa aggggnccag cnttgtncce acngagggtta 180
anccntggga aggttatact ttggaggagg acctaaagttg ctggctngcc tgatnttcaa 240
aacccttgcc cttgcgngna ccancnaga gactcttaat canggacaaa gnctngctgn 300
ctantcaccg attttngatt ctnaaacaaa tngtgcacaa agtaagggat tctgangggg 360
ntatcncaga caaaactgng ctagacatga gggctctatgg cttaaagagca ncagtgtctg 420
gcctggagca acaaattgct ttgatgtgca aaccctttaa caacagttta ttcagaagac 480
actttttccn agccaaaang tcctggatgc aanctgncna 520
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<211> 472

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<400> 437
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tcccatgggg ccacctggtc cttcaggnc aagaggtcct caagggtcca atggagctga 180
tggaaccacaa ggacccccag ggtctgtttg gttcagttgg tgggtgttga gaaaaggggtg 240
aacctggagt aagcagggaa cccagggcct cctggggtaa gcagggtgta ggcgggtcccc 300
aaagtngnna agaggtngag aaaggnggaa ngntgntttc aacctngngc ttnttgggna 360
cctcncagtn gnccangggg nccaccaggt nttgttttgg ccctaagggn naacccgggt 420
nctttttngt ttttntngn nattctsgnn tttttggggg attttgggnc ct 472

<210> 438
<211> 183
<212> DNA
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ggttcaccag gtnccgntgg gttgccaggg tccatgggggt cccagggcac cccatctntt 120

gatcacgggt tnacttgngg accaggcata gttcaaacaa tagatgaccn acattgtnc 180
ttt 183

<210> 439

<211> 541

<212> DNA

<213> Homo sapiens

<400> 439

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agaaattgaa acctggcgca atagatatag taccgcaagg aaagatgaaa aattataacc 120
aagcataata tagcaaggac taacccttat accttctgca taatgaatta actagaaata 180
actttgcaag gagagccaaa gctaagaccc ccgaaaccag acgagctacc taagaacagc 240
taaaagagca caccctgtcta tgtagcaaaa tagtggaag atttataggt agaggcgaca 300
aacctaccga gcctgggtgat agctgggtgt ccaagataga atcttagtgc aacttttaat 360
ttgcccacag aaccctctaa atccccttgt aaatttaact gttagtccaa agaggaacag 420
ctctttggac actagggaaa aaaccttgta gagagagtaa aaaatttaac acccatagta 480
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<210> 440

<211> 301

<212> DNA

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cctcaattgg ctggagggca gatctcgcga gtagggcaac gcggtaaaaa tattgcttcg 180
gtgggtgacg cggtacagct gcccaagggc gttcgtaacg ggaatgccga ancggtgggaa 240
aaagggagcg gtggcggaag acggggatga gtcangaca nagccnnaag ccaagaagag 300
t 301

<210> 441
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<212> DNA
<213> Homo sapiens

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<220>
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tatgcaaaaac atcaaagtga attttccatg aatgttttta atattctcat ctcaacattg 120
tgatatatgc tactaaaaac cttttcatat acatcttacc tcatttcaag tgaattattt 180
taatcttkkt ctctctktcc aaaaawtttag gaatgttttag tgtaattgga wttcgctatc 240
agttcccawc cttaagtttt gatattcaat atctgatagr wacaytgcac cyttgggtcat 300
ctaagnwttg kttacaantg tgccaaatta tttaggagcw agactttawa aggcwtnaaa 360
aaaac 365

<210> 442
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<212> DNA
<213> Homo sapiens

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ctcaccacag gccctcccca gctcaaccca ttaaagacc aggccctgtc ccatcatgca 120
ttcatgtctg tcttcctggc tcaggagaaa gaagaggctg ttgaggggcc gactccctac 180
ttggacttct ggcacagaag gggtgagtg actccttgag tagcagtggc tcttcctaga 240
gtagccatgc cgaggccggg gccccaccc ctcctccagg gcaaccctt ggtcctacag 300
caagaagcca gaactgttgg gaatgaatcg cagccctcct tggagaggca gcctgtttat 360
tgattacaga ggtaagttta caaattgatt aggctataat taantgcaca tttccnccac 420
aggccnggca tgaaggccca gtgggttttc aaaggccaca ttncaccccc tntctgcctt 480
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<210> 443
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<212> DNA
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<400> 443

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ctgggggaac taagccggag gcagtgggtg tggcggcggc gcaaggggtga gggcggtccc 120
aaaaccccag gtaggtagag caagaagatg gtgtttctgc ccctcaaagtg gtcccttgcn 180
accatgtcat ttctactttc ctactgttg gctctcttaa ctgtgtccac tccttcatgg 240
tgtcaganca ctgaagcatc tccaaaacnt antgatggga caccatttcc ttggaataaa 300
atacgacttc ctgaatacgt catcccagtg caatataaat ctcttgatcn atgcaaacct 360
taccangctg acttctgggg gaacnnn 387

<210> 444

<211> 313

<212> DNA

<213> Homo sapiens

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<222> (275)

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<222> (276)

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<222> (304)

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<222> (310)

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<220>

<221> misc feature

<222> (311)

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<400> 444

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attaaatttg gatgtagtga natctctctc tgtaaaanaaa cgcttatttt ctcccctaaa 120

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tggaatgatg aacgcttctt ctctcctctg ccatatgcc ctttgaaaag ttacatgtct 180
ctctattact tggcaataat gggaattttt atttctacag ttgtattgtt ttggctctgt 240
ccataccctg taaacatttc cattgttcta caaannctgt gttctctttt ctgtcaaggg 300
tcangtgtn naa 313
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<210> 445
<211> 72
<212> DNA
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ttnttttttn tn 72
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<210> 446
<211> 406
<212> DNA
<213> Homo sapiens

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gttacaagca ttgaacttct ttagtattat attaatataa aaacattttt gtatgtttta 120
ttgtaatcat aaatactgct gtataaggta ataaaactct gcacctaate ccataaactt 180
ccagtatcat tttccaatta attatcaagt ctgttttggg aaacactttg aggacattta 240
tgatgcagca gatgttgact aaaggcttgg ttggtagata ttcaggaaat gttcactgaa 300
taaataagta aatacattat tgaaaagcaa atctgtataa atgtgaaatt tttatttgta 360
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ttagtaataa aacattagta gtttaaaca aaaaaaaaaa aaaaaa

406

<210> 447

<211> 238

<212> DNA

<213> Homo sapiens

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<222> (127)

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atgggtcctcc atactcctca gacaacagcc ttncgaaagc aacctgtccc tacctgcaga 120
tgattancca tctatgaacc ggctgggtan gcaacaagtg ccatctttca tggagctgag 180

ccttaaagat cctncagtcc taaagctgnc gggaaganct taggtgggag cagcgntg 238

<210> 448

<211> 536

<212> DNA

<213> Homo sapiens

<220>

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<222> (284)

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<220>

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<222> (305)

<223> n equals a,t,g, or c

<220>

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<222> (323)

<223> n equals a,t,g, or c

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<222> (340)

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<220>

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<222> (405)

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<220>
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<220>
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<222> (460)
<223> n equals a,t,g, or c

<220>
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gtttcagaag aaaaagaatg aaattgggta actgtcattg cgttacttta tgttgaattg 120
ggaaattgtg ggcataaagc ttaaaatccg tgggtttatc caaattgtgg aaaccataa 180
gttaagttaa taaatgcctg ccttttggtta ataataaatt ggtaaaagtt gcctaaccaa 240
aattaagttc ctccaagcca cctggaaaaa aagggttaatt ggantacccc tcctttaaaa 300
aaggnaaagg cccaaccttt ttnggaaggt taagggtggn ttttngccta aaggcccctc 360
cagggaaaaa aatanncccg gtcccgggaa gaaanttttg ggttnaaaan cccggggttt 420
nggaataaaa aggggaagng nttaacctt tccccgggn tttttccctt tgggggtttc 480
caaaaaaat tttttcccaa agggtttncc caaaaaat ttttaaagg tttttt 536

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<222> (69)

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<222> (79)

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aaggcccgna ngcctgganc ttgg 84

<210> 450

<211> 423

<212> DNA

<213> Homo sapiens

<400> 450

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ggtgggctcc acccagttcg agcttcctgg ctgctttgtt tacctaagca agcctgggca 120
atgggtgggcy cccctccac agcctcgctg ccgccttgca gtttgatctc agactgctgt 180
gctagcaatc agcgagactc catgggcgta gggccctccg agccagggtc aggatataat 240
ctcctgggtgc accattcttt aagcccgtcg gaaaagcaca gtattagggg gggagtgacc 300
caattttcca ggtgccgtct gtcacccctt tctttgacta ggaaaggagc ctccctgacc 360
ccttgcgctt cccgagtga gcaatgcctc aacctgcttc ggctcacgca cggtagggctg 420
cac 423

<210> 451

<211> 544

<212> DNA

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<220>
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<222> (441)
<223> n equals a,t,g, or c

<220>
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<222> (483)
<223> n equals a,t,g, or c

<220>
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<222> (485)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (493)
<223> n equals a,t,g, or c

<220>
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<222> (523)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (542)
<223> n equals a,t,g, or c

<400> 451
gaatgctata ggaattatgg aggaataatt agctatttat tttcttggtt agggaagaga 60
tattattagt tgtagaagta attactaact tctacatttt ttattgtgga aatcaaaaat 120
atatatatga aaataaaatg ttataattga cttcagtgtc ccataaacca gcttcaacaa 180
ttaccaaatt gtgaccaatc tttacacaca tgcacagggt tccctcaata tctgtgggca 240
ttggttctag gaccacttat ggataccaac atctatggat gctcaagtcc ctgatataaa 300
atggtggact atttgcataat gacctgtgta catcccgtat tatttaaatac atccctagat 360
cacttataat acgtaatacn atgtaaatgc catgtaaata ctgttatact gnattaangg 420
aataacaacc aggaaaaatg nacatgggtca agtaccagac cccaattttt ttgggggggg 480
ggnaanaattt canttcccag ggcaatttga accccatggg ccntaggaag ctttaccggg 540
cntg 544

<210> 452
<211> 432
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (267)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (402)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (413)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (417)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (421)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (432)
<223> n equals a,t,g, or c

<400> 452
ggataaacca tctccccact tcacatagaa gcaaagtgag gcacaagggtg ggatagtgat 60
gtgcccaggg tcacctggct tctagtgaat gcaggagctg ggattccagc ccagcctgct 120
gactcactgg gctgcacaga gctccgctag ctctgctgac agctgccact cattggcagg 180
gggtgggcct cttgtcttcc acacaagggt gaagtgggtcc tgggtgctcct tgtctgggggt 240
actgggggtgg ggcatacctt gccatanaca agagagactt cacctacctg tgatctcccc 300
agcaccttca gtgccccgtg ggctgcctgg cccacagccg tgagcaagta ctgcctggct 360
gggaagccaa taccctgatg gaacttcggc aatgccctgg anaacatcct tantggnttt 420
ngccaacatt gn 432

<210> 453
<211> 90
<212> DNA
<213> Homo sapiens

<220>

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<222> (35)
<223> n equals a,t,g, or c

<220>
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<222> (49)
<223> n equals a,t,g, or c

<220>
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<222> (76)
<223> n equals a,t,g, or c

<220>
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<222> (81)
<223> n equals a,t,g, or c

<220>
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<222> (83)
<223> n equals a,t,g, or c

<400> 453
gggtggcttg caggggaagt gcttccgcct gtctnccgc ctgggcctnt cagcacgagc 60
ttgaggaaaa ccacantgcc ntnagatcca 90

<210> 454
<211> 500
<212> DNA
<213> Homo sapiens

<220>
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<222> (184)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (279)
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<220>
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<222> (349)
<223> n equals a,t,g, or c

<220>
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<222> (372)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (441)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (457)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (458)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (465)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (466)

<223> n equals a,t,g, or c

<400> 454

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ggtaagtacg acagaagggt acggctgcgt agaagacgac agaaggggtc tgctttccaa 60
ctgccctgact gcttggttcgt ctcaactgggtg tgagctccag catccccctt gctcgaaatg 120
gaccccaact gctcttgccg cactgggtggc tcctgcacgt gcgccggctc ctgcaagtgc 180
aaanagtgca aatgcacctc ctgcaagaag agctgctggt cctgctgccc cgtgggctgt 240
gccaaagtgtg ccaggggctg cgtctgcaaa ggggcacng aaaaatgcag ctgctgtgcc 300
tgatgtggga acagctcttc tcccagatgt taatagaaca acctgcacna cctggatttt 360
tttaaaaata cnacactgaa ccattgctgg catttccttt ttatactaaa tatgtgactg 420
aacaataaaa acattttgac ntttaaaaaa aaaaaannaa atttnnaaaa aaaaaaaaaa 480
cccggggccc ccaaaaaaca                                     500
```

<210> 455

<211> 635

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (178)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (380)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (392)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (438)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (517)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (518)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (555)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (557)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (569)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (618)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (631)

<223> n equals a,t,g, or c

<400> 455

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gggcngatta ttttatatta gtattaaaaa tcaaacccta tgtttctttc agatgaatct 60
tccaaagtgg attatattaa gcaggattta gatttaggaa aacctttcca tttcttaaag 120
tattatcaag tgtcaagatc agcaagtgtc cttaaagtcaa acagggtttt tttgttgntg 180
tttttgcttt gtttcctttt ttagaaagtt ctagaaaata ggaaaacgaa aaatttcatt 240
gagatgagta gtgcatttaa ttatttttta aaaaactttt taagtacttg aattttatat 300
caggaaaaca aagttgttga gccttgcttc ttccgttttg ccctttgtct cgctccttat 360
tctttttttg gggggagggg tatttgcttt tntatcttcc tggcataatt tccattttat 420
tcttctgagt gtctatgnta acttccctct atcccgttta taaaaaaatt ctccaacaaa 480
aatacttggg gacttgatgg tttatcactt ctctaannaa ggtgaaatac cctaattggaa 540
gctactgggt ttaangnaaa gggtaaacnt gaaaagaaat cttaatcacg gggccaaatt 600
aattttctaa ccccatgngt aaaaaatatt naaat 635
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<210> 456

<211> 317

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (86)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (203)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (210)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (245)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (267)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (303)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (305)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (316)

<223> n equals a,t,g, or c

<400> 456

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gcggacgcgt gggccgcctt ggaccgcagt tgccggccag gaatcccagt gtcacggtgg 60
acacgcctcc ctgcgcctt tgccgnccac ctgctcacc agctcagggg ctttggaatt 120
ctgtggccac actgtgagga gatcggttct gggtcggagg ctacaggaag actcccactc 180
cctgaaatct ggagtgaaga acngccgccn tccagccacc attccaagga ggtgcatgag 240
aacanctctg tgataccatt taacttngtt gacattactt ttatttgaag gaacgtatat 300
tananccttac ttgcna 317
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<210> 457

<211> 322

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (276)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (297)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (316)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (317)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (319)

<223> n equals a,t,g, or c

<400> 457

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gtgcatttat ttgaaatgtc tgtaagtctc tttccatcta cagagttag cacatttgaa 60
cggtgctgggt tgaaatcccc aggtgtcatt tgacatggtt ctctgaactt atctttccta 120
taaaatggta gttagatctg gaggtctgat tttgtggcaa aaatacttcc taggtgggtgc 180
tggggtacttc ttgtgcatc ctgtcaggag gcagataatg ctgggtgcctc tctattggta 240
```

atgttaagac tgctgggtgg gtttggagtt cttggnntta atcattcatt acaaagntca 300
acattttacc tgacgnntna ag 322

<210> 458
<211> 161
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (33)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (93)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (99)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (118)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (142)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (161)
<223> n equals a,t,g, or c

<400> 458
gagaaaacta ggcaatgtac tcttccgatg ttngtgtcac acaacactga tgtgactttt 60
atatgcttta tctcacatct ggtttctaag agntttggng ggcggggctg acaccacntg 120
cagtatctca agatattcag gnggccagaa gagcttgtca n 161

<210> 459
<211> 485
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (215)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (385)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (424)

<223> n equals a,t,g, or c

<220>

<221> misc feature

$\langle 222 \rangle$ (446)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (450)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (457)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (477)

<223> n equals a,t,g, or c

<400> 459

ggacacgagag	cccggaaagg	gggcgtcccc	atgagcgggc	ccggagccgg	gagcggggacc	60
tcagccggga	ccggagccgt	ggccggagcc	tggagcgggg	cctggaccaa	gaccatgcgc	120
gcacccgaga	ccgcagccgt	ggccggagcc	tggagcgggg	cctggaccac	gactttgggc	180
catcccggga	ccgggaccgt	gaccgcagcc	gcgggccgga	gcattgacca	ggactacgag	240
cgagcctatc	accgggcctt	acgacccaga	ctacgagcgg	gcttacagcc	cgggagttac	300
aggcgcgggg	cccgccacga	tgcccgcctc	tcggggaacc	ccgaaagccg	cagccgcgaa	360
gcacccgcat	tcaaggagcc	ccagncccg	gcttaagggg	cggcggggcc	catcgggttc	420
ttcntgatga	aaagcagagg	aacganattn	tgttttncgg	tttggaattaa	attttcntaa	480
ggatt						485

<210> 460

<211> 65

<212> PRT

<213> Homo sapiens

<400> 460

Ala Ile Asn Trp Asn Ser Thr Ser Leu Glu Phe Ser Lys Gly Val Trp
1 5 10 15

Glu Gly Ser Tyr Thr Ser Ser Met Lys Gly Ser Leu Ser Val Thr Lys
 20 25 30

Leu Gln Ile His Lys Pro Phe Val Ser Pro Asn Leu Leu Gly Met Asn
 35 40 45

Pro Thr Tyr Ile Phe Ile Cys Val Gln Ala Thr Trp Phe Ser Leu Cys
 50 55 60

Tyr
 65

<210> 461

<211> 344

<212> PRT

<213> Homo sapiens

<400> 461

Ile Arg His Glu Arg Lys Pro Ser Arg Ala Pro Leu Ala Met Glu Thr
 1 5 10 15

Val Ile Ser Ser Asp Ser Ser Pro Ala Val Glu Asn Glu His Pro Gln
 20 25 30

Glu Thr Pro Glu Ser Asn Asn Ser Val Tyr Thr Ser Phe Met Lys Ser
 35 40 45

His Arg Cys Tyr Asp Leu Ile Pro Thr Ser Ser Lys Leu Val Val Phe
 50 55 60

Asp Thr Ser Leu Gln Val Lys Lys Ala Phe Phe Ala Leu Val Thr Asn
 65 70 75 80

Gly Val Arg Ala Ala Pro Leu Trp Asp Ser Lys Lys Gln Ser Phe Val
 85 90 95

Gly Met Leu Thr Ile Thr Asp Phe Ile Asn Ile Leu His Arg Tyr Tyr
 100 105 110

Lys Ser Ala Leu Val Gln Ile Tyr Glu Leu Glu Glu His Lys Ile Glu
 115 120 125

Thr Trp Arg Glu Val Tyr Leu Gln Asp Ser Phe Lys Pro Leu Val Cys
 130 135 140

Ile Ser Pro Asn Ala Ser Leu Phe Asp Ala Val Ser Ser Leu Ile Arg
 145 150 155 160

405

```

Asn Lys Ile His Arg Leu Pro Val Ile Asp Pro Glu Ser Gly Asn Thr
      165                      170                      175

Leu Tyr Ile Leu Thr His Lys Arg Ile Leu Lys Phe Leu Lys Leu Phe
      180                      185                      190

Ile Thr Glu Phe Pro Lys Pro Glu Phe Met Ser Lys Ser Leu Glu Glu
      195                      200                      205

Leu Gln Ile Gly Thr Tyr Ala Asn Ile Ala Met Val Arg Thr Thr Thr
      210                      215                      220

Pro Val Tyr Val Ala Leu Gly Ile Phe Val Gln His Arg Val Ser Ala
      225                      230                      235                      240

Leu Pro Val Val Asp Glu Lys Gly Arg Val Val Asp Ile Tyr Ser Lys
      245                      250                      255

Phe Asp Val Ile Asn Leu Ala Ala Glu Lys Thr Tyr Asn Asn Leu Asp
      260                      265                      270

Val Ser Val Thr Lys Ala Leu Gln His Arg Ser His Tyr Phe Glu Gly
      275                      280                      285

Val Leu Lys Cys Tyr Leu His Glu Thr Leu Glu Thr Ile Ile Asn Arg
      290                      295                      300

Leu Val Glu Ala Glu Val His Arg Leu Val Val Val Asp Glu Asn Asp
      305                      310                      315                      320

Val Val Lys Gly Ile Val Ser Leu Ser Asp Ile Leu Gln Ala Leu Val
      325                      330                      335

Leu Thr Gly Gly Glu Lys Lys Pro
      340

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<210> 462

<211> 85

<212> PRT

<213> Homo sapiens

<400> 462

```

Ile Leu Ile Tyr Phe Tyr Phe Met Ala Leu Lys Tyr Asn Lys Ser Val
  1                      5                      10                      15

Asn Tyr Val Phe Tyr Ile Ser Ser Ser Leu Arg Leu Gly His Phe Ile
      20                      25                      30

Ser Val Asp Ile Ile Val Ser Ile Ile Leu Gln Asp Lys Lys His Leu

```

406

35 40 45
 Leu Thr Thr Cys Gly Leu Lys Tyr Arg Pro Thr Leu Cys Ser Asn Ile
 50 55 60
 Met Leu Ile Ile Phe Leu Ala Val Leu His Ser Gly Gly Pro Asn Trp
 65 70 75 80
 Ile Arg Leu Leu His
 85

<210> 463

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 463

Leu Ile Ser Cys Pro Met Glu Val Leu Ala Val Ser Ile Ser Leu Ile
 1 5 10 15

Phe Val Ser Pro Asn Met Leu Val Gln Ile Arg Val Ser His Ile Phe
 20 25 30

Leu Thr Ala Ser Asn Phe Tyr Leu Lys Trp Tyr Trp Xaa Leu Val Ser
 35 40 45

Val Gln Asn Ile Leu
 50

<210> 464

<211> 160

<212> PRT

<213> Homo sapiens

<400> 464

Gly Phe Thr Ala Ala Arg Arg Arg Gln Lys Gly Val Ser Gly Leu Leu
 1 5 10 15

Leu Cys Gln Ala Gly Gly Val Leu Val Ser Ser Phe Val Met Ala Ala
 20 25 30

Ala Val Ala Met Glu Thr Asp Asp Ala Gly Asn Arg Leu Arg Phe Gln

407

```

          35              40              45
Leu Glu Leu Glu Phe Val Gln Cys Leu Ala Asn Pro Asn Tyr Leu Asn
   50              55              60
Phe Leu Ala Gln Arg Gly Tyr Phe Lys Asp Lys Ala Phe Val Asn Tyr
   65              70              75              80
Leu Lys Tyr Leu Leu Tyr Trp Lys Asp Pro Glu Tyr Ala Lys Tyr Leu
          85              90              95
Lys Tyr Pro Gln Cys Leu His Met Leu Glu Leu Leu Gln Tyr Glu His
          100             105             110
Phe Arg Lys Glu Leu Val Asn Ala Gln Cys Ala Lys Phe Ile Asp Glu
          115             120             125
Gln Gln Ile Leu His Trp Gln His Tyr Ser Arg Lys Arg Met Arg Leu
          130             135             140
Gln Gln Ala Leu Ala Glu Gln Gln Gln Gln Asn Asn Thr Ser Gly Lys
          145             150             155             160

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<210> 465

<211> 42

<212> PRT

<213> Homo sapiens

<400> 465

```

Ser Pro Ser Phe Leu Cys Ile Lys Val Ile Ile Ser Glu Glu His Arg
  1              5              10              15

```

```

Asn Phe Ser Leu Phe Arg Glu Gly Lys Leu Ile Glu Asn Leu Ala Cys
          20              25              30

```

```

Ser Thr Asn Lys Tyr Ser Cys Cys Lys Tyr
          35              40

```

<210> 466

<211> 54

<212> PRT

<213> Homo sapiens

<400> 466

408

Arg Lys His Leu Glu Lys Met Thr His Trp Phe His Arg Asn Pro Leu
1 5 10 15
Lys Ala Thr Ala Pro Val Ser Phe Asn Tyr Tyr Gly Val Val Thr Gly
20 25 30
Pro Ser Ala Ser Lys Ile Cys Asn Asp Leu Arg Ser Ser Arg Ala Arg
35 40 45
Leu Leu Glu Thr Val His
50

<210> 467
<211> 49
<212> PRT
<213> Homo sapiens

<400> 467
Ala Asn Gly Gln Tyr Val Gln Leu Ala Cys Thr Ser Ser Thr Gly Leu
1 5 10 15
Val Val Trp Val Leu Leu Met Leu Gly Asn Ser Phe Cys His Asn His
20 25 30
Phe Thr Tyr Phe Phe Leu Tyr Cys Phe Ile Ile Ala Asn Ser Phe Ser
35 40 45
Leu

<210> 468
<211> 126
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 468
Xaa Gly Gly Gly Arg Cys Gln Val Pro Ala Ser His Arg Asn Gly Pro
1 5 10 15
Ala Gly Ala Gly Arg Leu Pro Thr Pro Pro Thr Lys Glu Gly Ala Pro
20 25 30

Glu Ser Ala Cys Ala Ser Ile His Leu Ser Val Gln Ser Arg His Pro
 35 40 45
 Cys Leu Ser Lys Ala Leu Thr Lys Thr Pro Ala Pro Gly Trp Pro Cys
 50 55 60
 Ala Asp Leu Thr Gln Gly Met Phe Thr Trp Cys Ser Gly Arg Glu Gly
 65 70 75 80
 Lys Gly Pro Gly Arg Gly His Gly Arg Arg Val Ala Ala Thr Arg Arg
 85 90 95
 Arg Pro Gly Arg Pro Gly Thr Gln Ser Arg Met Thr Thr His Leu His
 100 105 110
 Ala Thr Ala Ser Pro Glu Cys Ile Trp Asn Gln Ser Leu Asn
 115 120 125

<210> 469

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 469

Asp Arg Val Asn Arg Gly Met Pro Asp Val His Gly Phe Trp Gln Ser
 1 5 10 15
 Arg Gly His Ile Ser Ile Ile Ala Met Leu Val Pro Pro Pro Ser Glu
 20 25 30
 His Ser Gly Glu Gly Cys Glu Gly Ser Cys Asp Leu Asp Leu Arg Ser
 35 40 45
 Pro Asp Arg Asn Leu Asp Ala Thr Gly Ser Arg Pro Gly Leu Arg Leu
 50 55 60
 Gly Leu Val Asp Gly Xaa Leu Thr Val Phe Ala Asp
 65 70 75

<210> 470

<211> 193

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (154)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (167)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 470

Gly	Pro	Gly	Leu	Gly	Gly	Trp	Ser	Ser	Ile	Ser	Ser	Pro	Arg	Gly	Cys
1				5					10					15	

Arg	Asp	Ser	Gly	Arg	Ser	Val	Ala	Ala	Ile	Thr	Asp	Phe	Leu	Trp	Asp
			20					25						30	

Lys	Arg	Thr	Gly	Leu	Ala	Ala	Arg	Thr	Met	Pro	His	Pro	Arg	Arg	Tyr
		35					40					45			

His	Ser	Ser	Xaa	Arg	Gly	Ser	Arg	Gly	Ser	Tyr	Arg	Glu	His	Tyr	Arg
	50					55					60				

Ser	Arg	Lys	His	Lys	Arg	Arg	Arg	Ser	Arg	Ser	Trp	Ser	Ser	Ser	Ser
65					70					75					80

Asp	Arg	Thr	Arg	Arg	Arg	Arg	Arg	Glu	Asp	Ser	Tyr	His	Val	Arg	Ser
			85						90					95	

Arg	Ser	Ser	Tyr	Asp	Asp	Arg	Ser	Ser	Asp	Arg	Arg	Val	Tyr	Asp	Arg
			100					105						110	

Arg	Tyr	Cys	Gly	Ser	Tyr	Arg	Arg	Asn	Asp	Tyr	Ser	Arg	Asp	Arg	Gly
		115					120					125			

Asp	Ala	Tyr	Tyr	Asp	Thr	Asp	Tyr	Arg	His	Ser	Tyr	Glu	Tyr	Gln	Arg
	130					135					140				

Glu	Asn	Ser	Ser	Tyr	Arg	Ser	Gln	Arg	Xaa	Ala	Gly	Glu	Ala	Gln	Thr
145					150					155					160

Ala	Glu	Glu	Ala	His	Gly	Xaa	Phe	Ser	Arg	Ser	Ser	Ser	Val	Ser	Ala
				165					170						175

411

Ser Pro Gly Pro Ser Ser Pro His Ser Ser Ala Gly Pro Leu Gly Leu
 180 185 190

Trp

<210> 471

<211> 111

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 471

Pro Ala Pro Gly Arg Gly Pro Pro Met Ala Gly Ala Ala Pro Thr Thr
 1 5 10 15

Ala Phe Gly Gln Ala Val Ile Gly Pro Pro Gly Ser Gly Lys Thr Thr
 20 25 30

Tyr Cys Leu Gly Met Ser Glu Phe Leu Arg Ala Leu Gly Arg Arg Val
 35 40 45

Ala Val Val Asn Leu Asp Pro Ala Asn Glu Gly Leu Pro Tyr Glu Cys
 50 55 60

Ala Val Asp Val Gly Glu Leu Val Gly Leu Gly Asp Val Met Asp Ala
 65 70 75 80

Leu Arg Leu Gly Pro Asn Gly Gly Leu Leu Tyr Phe Met Glu Tyr Leu
 85 90 95

Glu Ala Asn Leu Asp Trp Leu Arg Xaa Lys Leu Glu Pro Leu Arg
 100 105 110

<210> 472

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 472

Lys Glu Gly Glu Lys Ser Ala Thr Leu Val Leu Leu Phe Cys Val Tyr
 1 5 10 15

Asn Phe Leu Lys Lys Ile Cys Val Leu Leu Ile Thr Thr Leu Val
 20 25 30

Cys Pro Ser Ala Phe Phe Phe Phe Xaa Lys Thr Gly Ser His Ser Ile
 35 40 45

Gly Gln Ala Gly Val Gln Trp Cys Asn His Ser Ser Leu Gln Xaa Cys
 50 55 60

Pro
 65

<210> 473

<211> 283

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (182)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 473

Gly Arg Gly Gly Arg Gly Trp Trp Gly Phe Trp Thr Glu Pro Leu Arg
 1 5 10 15

Val Arg Ala Asp Pro Val Ser Gly Cys Gly Gly Lys Met Ala Glu Leu
 20 25 30

Arg Val Leu Val Ala Val Lys Arg Val Ile Asp Tyr Ala Val Lys Ile
 35 40 45

Arg Val Lys Pro Asp Arg Thr Gly Val Val Thr Asp Gly Val Lys His
 50 55 60

Ser Met Asn Pro Phe Cys Glu Ile Ala Val Glu Glu Ala Val Arg Leu
 65 70 75 80

Lys Glu Lys Lys Leu Val Lys Glu Val Ile Ala Val Ser Cys Gly Pro

413

85					90					95					
Ala	Gln	Cys	Gln	Glu	Thr	Ile	Arg	Thr	Ala	Leu	Ala	Met	Gly	Ala	Asp
			100						105					110	
Arg	Gly	Ile	His	Val	Glu	Val	Pro	Pro	Ala	Glu	Ala	Glu	Arg	Leu	Gly
		115						120					125		
Pro	Leu	Gln	Val	Ala	Arg	Val	Leu	Ala	Lys	Leu	Ala	Glu	Lys	Glu	Lys
		130					135				140				
Val	Asp	Leu	Val	Leu	Leu	Gly	Lys	Gln	Ala	Ile	Asp	Asp	Asp	Cys	Asn
145					150					155					160
Gln	Thr	Gly	Gln	Met	Thr	Ala	Gly	Phe	Leu	Asp	Trp	Pro	Gln	Gly	Thr
				165					170					175	
Phe	Ala	Ser	Gln	Val	Xaa	Leu	Glu	Gly	Asp	Lys	Leu	Lys	Val	Glu	Arg
			180						185					190	
Glu	Ile	Asp	Gly	Gly	Leu	Glu	Thr	Leu	Arg	Leu	Lys	Leu	Pro	Ala	Val
		195					200						205		
Val	Thr	Ala	Asp	Leu	Arg	Leu	Asn	Glu	Pro	Arg	Tyr	Ala	Thr	Leu	Pro
		210					215					220			
Asn	Ile	Met	Lys	Ala	Lys	Lys	Lys	Lys	Ile	Glu	Val	Ile	Lys	Pro	Gly
225					230					235					240
Asp	Leu	Gly	Val	Asp	Leu	Thr	Ser	Lys	Leu	Ser	Val	Ile	Ser	Val	Glu
				245					250					255	
Asp	Pro	Pro	Gln	Arg	Thr	Ala	Gly	Val	Lys	Val	Glu	Thr	Thr	Glu	Asp
			260						265					270	
Leu	Val	Ala	Lys	Leu	Lys	Glu	Ile	Gly	Arg	Ile					
		275					280								

<210> 474

<211> 521

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (199)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (272)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 474

Cys	Leu	Thr	Lys	Leu	Leu	Pro	Cys	Phe	Leu	Glu	His	Asn	Met	Lys	Arg
1				5					10					15	

Asp	Glu	Asp	Leu	His	Lys	Ala	Ala	Lys	Glu	Met	Pro	Phe	Gln	Gly	Ser
			20					25						30	

Gly	Lys	Ser	Ala	Trp	Cys	Pro	Val	Glu	Ile	Ser	Lys	Thr	Val	Leu	Trp
	35						40					45			

Pro	Glu	Ser	Ile	Ser	Xaa	Val	Arg	Cys	Val	Glu	Leu	Phe	Glu	Ala	Pro
	50					55					60				

Val	Glu	Cys	Glu	Glu	Glu	Glu	Glu	Val	Glu	Glu	Glu	Lys	Gly	Ser	Phe
65				70					75					80	

Cys	Ala	Ser	Pro	Glu	Ser	Ser	Arg	Asp	Asp	Phe	Gln	Glu	Gly	Arg	Glu
				85					90					95	

Gly	Ile	Val	Ala	Arg	Leu	Thr	Glu	Ser	Leu	Phe	Leu	Asp	Leu	Leu	Gly
			100					105					110		

Glu	Glu	Asn	Gly	Gly	Phe	Cys	Gln	Gln	Asp	Met	Gly	Glu	Ser	Cys	Leu
		115					120					125			

Leu	Pro	Pro	Ser	Gly	Ser	Thr	Ser	Ala	His	Met	Pro	Trp	Asp	Glu	Phe
	130					135						140			

Pro	Ser	Ala	Gly	Pro	Lys	Glu	Ala	Pro	Pro	Trp	Gly	Lys	Glu	Gln	Pro
145					150					155					160

Leu	His	Leu	Glu	Pro	Ser	Pro	Pro	Ala	Ser	Pro	Thr	Gln	Ser	Pro	Asp
				165					170					175	

Asn	Leu	Thr	Cys	Thr	Glu	Thr	Pro	Leu	Val	Ile	Ala	Gly	Asn	Pro	Ala
			180					185					190		

Tyr	Arg	Ser	Phe	Ser	Asn	Xaa	Leu	Ser	Gln	Ser	Pro	Cys	Pro	Arg	Glu
		195					200					205			

Leu	Gly	Pro	Asp	Pro	Leu	Leu	Ala	Arg	His	Leu	Glu	Glu	Val	Glu	Pro
	210						215					220			

Glu Met Pro Cys Val Pro Gln Leu Ser Glu Pro Thr Thr Val Pro Gln
 225 230 235 240
 Pro Glu Pro Glu Thr Trp Glu Gln Ile Leu Arg Arg Asn Val Leu Gln
 245 250 255
 His Gly Ala Ala Ala Ala Pro Val Ser Ala Pro Thr Ser Gly Tyr Xaa
 260 265 270
 Glu Phe Val His Ala Val Glu Gln Gly Gly Thr Gln Ala Ser Ala Val
 275 280 285
 Val Gly Leu Gly Pro Pro Gly Glu Ala Gly Tyr Lys Ala Phe Ser Ser
 290 295 300
 Leu Leu Ala Ser Ser Ala Val Ser Pro Glu Lys Cys Gly Phe Gly Ala
 305 310 315 320
 Ser Ser Gly Glu Glu Gly Tyr Lys Pro Phe Gln Asp Leu Ile Pro Gly
 325 330 335
 Cys Pro Gly Asp Pro Ala Pro Val Pro Val Pro Leu Phe Thr Phe Gly
 340 345 350
 Leu Asp Arg Glu Pro Pro Arg Ser Pro Gln Ser Ser His Leu Pro Ser
 355 360 365
 Ser Ser Pro Glu His Leu Gly Leu Glu Pro Gly Glu Lys Val Glu Asp
 370 375 380
 Met Pro Lys Pro Pro Leu Pro Gln Glu Gln Ala Thr Asp Pro Leu Val
 385 390 395 400
 Asp Ser Leu Gly Ser Gly Ile Val Tyr Ser Ala Leu Thr Cys His Leu
 405 410 415
 Cys Gly His Leu Lys Gln Cys His Gly Gln Glu Asp Gly Gly Gln Thr
 420 425 430
 Pro Val Met Ala Ser Pro Cys Cys Gly Cys Cys Cys Gly Asp Arg Ser
 435 440 445
 Ser Pro Pro Thr Thr Pro Leu Arg Ala Pro Asp Pro Ser Pro Gly Gly
 450 455 460
 Val Pro Leu Glu Ala Ser Leu Cys Pro Ala Ser Leu Ala Pro Ser Gly
 465 470 475 480
 Ile Ser Glu Lys Ser Lys Ser Ser Ser Ser Phe His Pro Ala Pro Gly
 485 490 495

416

Asn Ala Gln Ser Ser Ser Gln Thr Pro Lys Ile Val Asn Phe Val Ser
 500 505 510

Val Gly Pro Thr Tyr Met Arg Val Ser
 515 520

<210> 475

<211> 245

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (163)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 475

Pro Val Ser Tyr His Pro Arg Met Cys Thr Gly Gly Cys Ala Arg Cys
 1 5 10 15

Leu Gly Gly Thr Leu Ile Pro Leu Ala Phe Phe Gly Phe Leu Ala Asn
 20 25 30

Ile Leu Leu Phe Phe Pro Gly Gly Lys Val Ile Asp Asp Asn Asp His
 35 40 45

Leu Ser Gln Glu Ile Trp Phe Phe Gly Gly Ile Leu Gly Ser Gly Val
 50 55 60

Leu Met Ile Phe Pro Ala Leu Val Phe Leu Gly Leu Lys Asn Asn Asp
 65 70 75 80

Cys Cys Gly Cys Cys Gly Asn Glu Gly Cys Gly Lys Arg Phe Ala Met
 85 90 95

Phe Thr Ser Thr Ile Phe Ala Val Val Gly Phe Leu Gly Ala Gly Tyr
 100 105 110

Ser Phe Ile Ile Ser Ala Ile Ser Ile Asn Lys Gly Pro Lys Cys Leu
 115 120 125

Met Ala Asn Ser Thr Trp Gly Tyr Pro Phe His Asp Gly Asp Tyr Leu
 130 135 140

Asn Asp Glu Ala Leu Trp Asn Lys Cys Arg Glu Pro Leu Asn Val Val
 145 150 155 160

Pro Trp Xaa Ser Asp Pro Leu Leu His Pro Ala Gly Arg Arg Arg Asn

417

165 170 175
 Pro Asp Gly Ser Leu Arg His Pro Gly Gly Gln Trp Pro Pro Gly Asp
 180 185 190
 Pro Leu Trp Gly Leu Pro Val Leu Trp Leu Leu Trp Gly Arg Trp Thr
 195 200 205
 Arg Leu Asn Leu Arg Asp Glu Leu Leu Arg Leu Tyr Ser Met Thr Thr
 210 215 220
 Thr Ile Ser Phe His Lys Thr Ser Ser Leu Leu Gly Ile Ile Asn Ser
 225 230 235 240
 Tyr Leu Leu Pro Ser
 245

<210> 476

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 476

Met Ile Tyr His Pro Ala Phe Ile Lys Tyr Val Phe Asp Asn Trp Leu
 1 5 10 15
 Gln Gly His Gly Arg Tyr Pro Ser Thr Gly Ile Leu Ser Val Ile Phe
 20 25 30
 Ser Met His Val Cys Asp Glu Val Asp Leu Tyr Gly Phe Gly Ala Asp
 35 40 45
 Ser Lys Gly Asn Trp Xaa Pro Leu Leu Gly Glu Gln Pro Ile Arg Gly
 50 55 60
 Gly Phe Ser Gln Asp Gly Gly Ala Arg Cys Arg Leu
 65 70 75

<210> 477

<211> 176

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 477

Ser	Gln	Phe	Arg	Met	Gly	Trp	Thr	Trp	Thr	Ala	Xaa	Ser	Leu	Ala	Pro
1				5				10						15	

Gln	Arg	Leu	Met	Ser	Val	Leu	Asn	Pro	Cys	Gln	Asn	Tyr	Thr	Leu	Leu
		20					25						30		

Asp	Glu	Pro	Phe	Arg	Ser	Thr	Glu	Asn	Ser	Ala	Gly	Ser	Gln	Gly	Cys
	35						40					45			

Asp	Lys	Asn	Met	Ser	Gly	Trp	Tyr	Arg	Phe	Val	Gly	Glu	Gly	Gly	Val
	50					55					60				

Arg	Met	Ser	Glu	Thr	Cys	Val	Gln	Val	His	Arg	Cys	Gln	Thr	Asp	Ala
65					70					75					80

Pro	Met	Trp	Leu	Asn	Gly	Thr	His	Pro	Ala	Leu	Gly	Asp	Gly	Ile	Thr
			85						90					95	

Asn	His	Thr	Ala	Cys	Ala	His	Trp	Ser	Gly	Asn	Cys	Cys	Phe	Trp	Lys
			100					105					110		

Thr	Glu	Val	Leu	Val	Lys	Ala	Cys	Pro	Gly	Gly	Tyr	His	Val	Tyr	Arg
	115						120					125			

Leu	Glu	Gly	Thr	Pro	Trp	Cys	Asn	Leu	Arg	Tyr	Cys	Thr	Asp	Pro	Ser
	130					135					140				

Thr	Val	Glu	Asp	Lys	Cys	Glu	Lys	Ala	Cys	Arg	Pro	Glu	Glu	Glu	Cys
145					150					155				160	

Leu	Ala	Leu	Asn	Ser	Asn	Trp	Gly	Xaa	Phe	Cys	Arg	Gln	Gly	Pro	Gln
			165						170					175	

<210> 478

<211> 97
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (72)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (96)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 478
 Met Arg Asp Ala Leu Leu Ala Tyr Ser Pro Gln Phe Thr Leu Ser Pro
 1 5 10 15
 Gln Val Ile Lys Tyr Gly Leu Lys Thr Gly Asn Val Ala Ser Leu Cys
 20 25 30
 Pro Trp Trp Ile Gly Pro Gln Ile Val Ile Leu Thr Thr Leu Thr Ala
 35 40 45
 Val Lys Val Glu Gly Ile Pro Ala Trp Ile His His Ser His Val Lys
 50 55 60
 Pro Ala Ala Pro Glu Thr Trp Xaa Ala Arg Pro Ser Pro Asp Asn Pro
 65 70 75 80
 Cys Arg Val Thr Leu Lys Met Met Thr Ser Pro Val Pro Val Thr Xaa
 85 90 95

Arg

<210> 479
 <211> 158
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (66)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 479
 Cys Asp Leu Ser Ser Arg Gln Arg Trp Asp Ile Met Ala Ser Ile Trp
 1 5 10 15

420

Val Gly His Arg Gly Thr Val Arg Asp Tyr Pro Asp Phe Ser Pro Ser
 20 25 30
 Val Asp Ala Glu Ala Ile Gln Lys Ala Ile Arg Gly Ile Gly Thr Asp
 35 40 45
 Glu Lys Met Leu Ile Ser Ile Leu Thr Glu Arg Ser Asn Ala Gln Arg
 50 55 60
 Gln Xaa Ile Val Lys Glu Tyr Gln Ala Ala Tyr Gly Lys Glu Leu Lys
 65 70 75 80
 Asp Asp Leu Lys Gly Asp Leu Ser Gly His Phe Glu His Leu Met Val
 85 90 95
 Ala Leu Val Thr Pro Pro Ala Val Phe Asp Ala Lys Gln Leu Lys Lys
 100 105 110
 Ser Met Lys Gly Ala Gly Thr Asn Glu Asp Ala Leu Ile Glu Ile Leu
 115 120 125
 Thr Thr Arg Thr Ser Arg Gln Met Lys Asp Ile Ser Gln Ala Tyr Leu
 130 135 140
 Tyr Ser Ile Gln Glu Glu Ser Trp Glu Met Asp Ile Ser Phe
 145 150 155

<210> 480

<211> 105

<212> PRT

<213> Homo sapiens

<400> 480

Ile Tyr Cys Arg Met Leu Ile Phe Trp Thr Ile Thr Leu Phe Leu Leu
 1 5 10 15
 Gly Ala Ala Lys Gly Lys Glu Val Cys Tyr Glu Asp Leu Gly Cys Phe
 20 25 30
 Phe Asp Thr Glu Pro Trp Gly Gly Thr Ala Ile Arg Pro Leu Lys Ile
 35 40 45
 Leu Pro Trp Ser Pro Glu Lys Ile Gly Thr Arg Phe Leu Leu Tyr Thr
 50 55 60
 Asn Glu Asn Pro Asn Asn Phe Gln Ile Leu Leu Leu Ser Asp Pro Ser
 65 70 75 80

421

Thr Ile Glu Ala Ser Asn Phe Gln Met Asp Arg Lys Thr Arg Phe Ile
85 90 95

Ile His Gly Phe His Arg Gln Arg Gly
100 105

<210> 481

<211> 136

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 481

Ile Arg Gln Arg Phe Gln Met Asp Arg Lys Thr Arg Phe Ile Ile His
1 5 10 15

Xaa Phe Ile Asp Lys Gly Asp Glu Ser Trp Val Thr Asp Met Cys Lys
20 25 30

Lys Leu Phe Glu Val Glu Glu Val Asn Cys Ile Cys Val Asp Trp Lys
35 40 45

Lys Gly Ser Gln Ala Thr Tyr Thr Gln Ala Ala Asn Asn Val Arg Val
50 55 60

Val Gly Ala Gln Val Ala Gln Met Leu Asp Ile Leu Leu Thr Glu Tyr
65 70 75 80

Ser Tyr Pro Pro Ser Lys Val His Leu Ile Gly His Ser Leu Gly Ala
85 90 95

His Val Ala Gly Glu Ala Gly Ser Lys Thr Pro Gly Leu Ser Arg Ile
100 105 110

Thr Gly Leu Asp Pro Val Glu Ala Ser Phe Glu Ser Thr Pro Glu Glu
115 120 125

Val Arg Leu Asp Pro Ser Glu Cys
130 135

<210> 482

<211> 188

<212> PRT

422

<213> Homo sapiens

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 482

Ala	Ser	Gln	Val	Glu	Gly	Ser	Gln	Gly	Ala	Glu	Leu	Leu	Ser	Glu	Ile
1				5					10					15	
Gln	Ser	Pro	Gln	Arg	Asn	Val	Ser	Phe	Asp	Val	Leu	Pro	Ala	Phe	Asn
			20					25					30		
Ala	Leu	Gly	Gln	Leu	Ser	Ser	Gly	Ser	Thr	Pro	Ser	Pro	Glu	Val	Tyr
	35						40					45			
Ala	Gly	Leu	Ile	Asp	Leu	Tyr	Lys	Ser	Ser	Asp	Leu	Pro	Gly	Gly	Glu
	50					55					60				
Phe	Ser	Thr	Cys	Phe	Thr	Val	Leu	Gln	Arg	Asn	Phe	Ile	Arg	Ser	Arg
65					70					75				80	
Pro	Thr	Lys	Leu	Lys	Asp	Leu	Ile	Arg	Leu	Val	Lys	His	Trp	Tyr	Lys
			85						90					95	
Glu	Cys	Glu	Arg	Lys	Leu	Lys	Pro	Lys	Gly	Ser	Leu	Pro	Pro	Lys	Tyr
		100						105					110		
Ala	Leu	Glu	Leu	Leu	Thr	Ile	Tyr	Ala	Trp	Glu	Xaa	Gly	Ser	Gly	Val
	115						120					125			
Pro	Asp	Phe	Asp	Thr	Ala	Glu	Gly	Phe	Arg	Thr	Val	Leu	Glu	Leu	Val
	130					135					140				
Thr	Gln	Tyr	Gln	Gln	Leu	Cys	Ile	Phe	Trp	Lys	Val	Asn	Tyr	Asn	Phe
145					150					155				160	
Glu	Asp	Glu	Thr	Val	Arg	Lys	Phe	Leu	Leu	Ser	Gln	Leu	Gln	Lys	Thr
			165						170				175		
Arg	Pro	Val	Asp	Leu	Gly	Pro	Ser	Arg	Thr	His	Arg				
		180						185							

<210> 483

<211> 78

<212> PRT

<213> Homo sapiens

423

<400> 483

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Arg Arg Lys Val Ala Met Asp Leu Ile Pro Asn Leu Ala Val Glu Thr
 1             5             10             15

Trp Leu Leu Leu Ala Val Ser Leu Val Leu Leu Tyr Leu Tyr Gly Thr
      20             25             30

Arg Thr His Gly Leu Phe Lys Arg Leu Gly Ile Pro Gly Pro Thr Pro
      35             40             45

Leu Pro Leu Leu Gly Asn Val Leu Ser Tyr Arg Gln Gly Leu Trp Lys
      50             55             60

Phe Asp Thr Glu Cys Tyr Lys Lys Tyr Gly Lys Met Trp Gly
 65             70             75

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<210> 484

<211> 211

<212> PRT

<213> Homo sapiens

<400> 484

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Cys Thr Ser Ser Ala Pro Arg Arg Ser Ser Pro Cys Ser Ala Gly Pro
 1             5             10             15

Thr Trp Ser Gly Thr Leu Trp Arg Arg Arg Arg Arg Cys Trp Arg Thr
      20             25             30

Gly Cys Gly Ser Arg Ser Arg Cys Cys Gly Cys Ser Arg His Tyr Arg
      35             40             45

Thr Gly Ser Ala Val Pro Arg Glu Leu Leu Glu Lys Leu Ile Glu Ser
      50             55             60

Arg Gln Ala Asn Thr Gly Leu Phe Asn Leu Arg Gln Ile Val Leu Ala
 65             70             75             80

Lys Val Asp Gln Ala Leu His Thr Gln Thr Asp Ala Asp Pro Ala Glu
      85             90             95

Glu Tyr Ala Arg Leu Cys Gln Glu Ile Leu Gly Val Pro Ala Thr Pro
      100             105             110

Gly Thr Asn Met Pro Ala Thr Phe Gly His Leu Ala Gly Gly Tyr Asp
      115             120             125

Ala Gln Tyr Tyr Gly Tyr Leu Trp Ser Glu Val Tyr Ser Met Asp Met
 130             135             140

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424

Phe His Thr Arg Phe Lys Gln Glu Gly Val Leu Asn Ser Lys Val Gly
 145 150 155 160
 Met Asp Tyr Arg Ser Cys Ile Leu Arg Pro Gly Gly Ser Glu Asp Ala
 165 170 175
 Ser Ala Met Leu Arg Arg Phe Leu Gly Arg Asp Pro Lys Gln Asp Ala
 180 185 190
 Phe Leu Leu Ser Lys Gly Leu Gln Val Gly Gly Cys Glu Pro Glu Pro
 195 200 205
 Gln Ser Gly
 210

<210> 485
 <211> 371
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (122)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 485
 Gly Ser Glu Lys Pro Gly Gly Ala Gly Trp Lys Glu Asp Glu Pro Thr
 1 5 10 15
 Lys Gln Arg Ser Glu Asp Ser Met Tyr Thr Ala Ile Pro Gln Ser Gly
 20 25 30
 Ser Pro Phe Pro Gly Ser Val Gln Asp Pro Gly Leu His Val Trp Arg
 35 40 45
 Val Glu Lys Leu Lys Pro Val Pro Val Ala Gln Glu Asn Gln Gly Val
 50 55 60
 Phe Phe Ser Gly Asp Ser Tyr Leu Val Leu His Asn Gly Pro Glu Glu
 65 70 75 80
 Val Ser His Leu His Leu Trp Ile Gly Gln Gln Ser Ser Arg Asp Glu
 85 90 95
 Gln Gly Ala Cys Ala Val Leu Ala Val His Leu Asn Thr Leu Leu Gly
 100 105 110
 Glu Arg Pro Val Gln His Arg Glu Val Xaa Gly Asn Glu Ser Asp Leu
 115 120 125

Phe Met Ser Tyr Phe Pro Arg Gly Leu Lys Tyr Gln Glu Gly Gly Val
 130 135 140
 Glu Ser Ala Phe His Lys Thr Ser Thr Gly Ala Pro Ala Ala Ile Lys
 145 150 155 160
 Lys Leu Tyr Gln Val Lys Gly Lys Lys Asn Ile Arg Ala Thr Glu Arg
 165 170 175
 Ala Leu Asn Trp Asp Ser Phe Asn Thr Gly Asp Cys Phe Ile Leu Asp
 180 185 190
 Leu Gly Gln Asn Ile Phe Ala Trp Cys Gly Gly Lys Ser Asn Ile Leu
 195 200 205
 Glu Arg Asn Lys Ala Arg Asp Leu Ala Leu Ala Ile Arg Asp Ser Glu
 210 215 220
 Arg Gln Gly Lys Ala Gln Val Glu Ile Val Thr Asp Gly Glu Glu Pro
 225 230 235 240
 Ala Glu Met Ile Gln Val Leu Gly Pro Lys Pro Ala Leu Lys Glu Gly
 245 250 255
 Asn Pro Glu Glu Asp Leu Thr Ala Asp Lys Ala Asn Ala Gln Ala Ala
 260 265 270
 Ala Leu Tyr Lys Val Ser Asp Ala Thr Gly Gln Met Asn Leu Thr Lys
 275 280 285
 Val Ala Asp Ser Ser Pro Phe Ala Leu Glu Leu Leu Ile Ser Asp Asp
 290 295 300
 Cys Phe Val Leu Asp Asn Gly Leu Cys Gly Lys Ile Tyr Ile Trp Lys
 305 310 315 320
 Gly Arg Lys Ala Asn Glu Lys Glu Arg Gln Ala Ala Leu Gln Val Ala
 325 330 335
 Glu Gly Phe Ile Ser Arg Met Gln Tyr Ala Pro Asn Thr Gln Val Glu
 340 345 350
 Ile Leu Pro Gln Gly Arg Glu Ser Pro Ile Phe Lys Gln Phe Phe Lys
 355 360 365
 Asp Trp Lys
 370

<210> 486
 <211> 61
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (23)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (53)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (54)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (61)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 486
 Lys Gln His Phe Tyr Cys Leu Leu Pro Ala Asn Leu Tyr Leu Lys Pro
 1 5 10 15
 Leu Asp Thr Asp Ser Leu Xaa Trp Asp Phe Gly Ile Asp Gly Phe Leu
 20 25 30
 Pro Phe Phe Ser Ala Ser Ala Ser Ile Ala Phe Ile Lys Leu His Cys
 35 40 45
 Val Gln Lys Lys Xaa Xaa Lys Lys Lys Lys Gly Gly Xaa
 50 55 60

<210> 487
 <211> 198
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (151)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE
 <222> (180)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (195)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (198)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 487
 Arg Gly Gly Leu Leu Gly Ala Arg Pro Pro Ala Gln Arg Thr Leu Cys
 1 5 10 15

 Cys Pro Ala Arg Cys Gly Cys Cys Trp Arg Ser Trp Pro Ser Pro Arg
 20 25 30

 Arg Ala Ile Gly Ser Ala Glu Ser His Trp Cys Tyr Glu Val Gln Ala
 35 40 45

 Glu Ser Ser Asn Tyr Pro Cys Leu Val Pro Val Lys Trp Gly Gly Asn
 50 55 60

 Cys Gln Lys Asp Arg Gln Ser Pro Ile Asn Ile Val Thr Thr Lys Ala
 65 70 75 80

 Lys Val Asp Lys Lys Leu Gly Arg Phe Phe Phe Ser Gly Tyr Asp Lys
 85 90 95

 Lys Gln Thr Trp Thr Val Gln Asn Asn Gly His Ser Val Met Met Leu
 100 105 110

 Leu Glu Asn Lys Ala Ser Ile Ser Gly Gly Gly Leu Pro Ala Pro Tyr
 115 120 125

 Gln Ala Lys Gln Leu His Leu His Trp Ser Asp Leu Pro Tyr Lys Gly
 130 135 140

 Ser Glu His Ser Leu Asp Xaa Glu Ala Phe Ala Met Gly Asp Ala His
 145 150 155 160

 Ser Tyr Met Arg Lys Arg Arg Gly His Pro Arg Asn Val Lys Glu Ala
 165 170 175

 Gln Asp Pro Xaa Arg Arg Ile Cys Gly Ala Gly Leu Phe Leu Gly Gly
 180 185 190

Gly Trp Xaa Pro Gly Xaa
195

<210> 488

<211> 116

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 488

Lys Glu Gly Leu Xaa Ser Leu His Leu Leu Cys Ser Thr Ala His Tyr
1 5 10 15

Gln Lys Thr Ala Xaa Met Lys Ser Ile Tyr Phe Val Ala Gly Leu Phe
20 25 30

Val Met Leu Val Gln Gly Ser Trp Gln Arg Ser Leu Gln Asp Thr Glu
35 40 45

Glu Lys Ser Arg Ser Phe Ser Ala Ser Gln Ala Asp Pro Leu Ser Asp
50 55 60

Pro Xaa Gln Met Xaa Glu Asp Lys Arg His Ser Gln Gly Thr Phe Thr
65 70 75 80

Ser Asp Tyr Ser Lys Tyr Leu Asp Ser Arg Arg Ala Gln Asp Phe Val
85 90 95

Gln Trp Leu Met Asn Thr Lys Arg Asn Arg Asn Asn Ile Ala Lys Arg
100 105 110

His Gly Glu Phe

115

<210> 489

<211> 389

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (376)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (377)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (379)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 489

Val Trp Ser Phe Ser Leu Asp Thr Glu Pro Ser Arg Gln Ala Lys Gln

1

5

10

15

Ala Arg Thr His His Pro Ala Pro Gly Pro Ala Ser Leu Leu Pro Ser

20

25

30

Asn Ala Met Gly Ser Asn Leu Ser Pro Gln Leu Cys Leu Met Pro Phe

35

40

45

Ile Leu Gly Leu Leu Ser Gly Gly Val Thr Thr Thr Pro Trp Ser Leu

50

55

60

Ala Arg Pro Gln Gly Ser Cys Ser Leu Glu Gly Val Glu Ile Lys Gly

65

70

75

80

Gly Ser Phe Arg Leu Leu Gln Glu Gly Gln Ala Leu Glu Tyr Val Cys

85

90

95

Pro Ser Gly Phe Tyr Pro Tyr Pro Val Gln Thr Arg Thr Cys Arg Ser

100

105

110

Thr Gly Ser Trp Ser Thr Leu Lys Thr Gln Asp Gln Lys Thr Val Arg

115

120

125

430

Lys Ala Glu Cys Arg Ala Ile His Cys Pro Arg Pro His Asp Phe Glu
 130 135 140
 Asn Gly Glu Tyr Trp Pro Arg Ser Pro Tyr Tyr Asn Val Ser Asp Glu
 145 150 155 160
 Ile Ser Phe His Cys Tyr Asp Gly Tyr Thr Leu Arg Gly Ser Ala Asn
 165 170 175
 Arg Thr Cys Gln Val Asn Gly Arg Trp Ser Gly Gln Thr Ala Ile Cys
 180 185 190
 Asp Asn Gly Ala Gly Tyr Cys Ser Asn Pro Gly Ile Pro Ile Gly Thr
 195 200 205
 Arg Lys Val Gly Ser Gln Tyr Arg Leu Glu Asp Ser Val Thr Tyr His
 210 215 220
 Cys Ser Arg Gly Leu Thr Leu Arg Gly Ser Gln Arg Arg Thr Cys Gln
 225 230 235 240
 Glu Gly Gly Ser Trp Ser Gly Thr Glu Pro Ser Cys Gln Asp Ser Phe
 245 250 255
 Met Tyr Asp Thr Pro Gln Glu Val Ala Glu Ala Phe Leu Ser Ser Leu
 260 265 270
 Thr Glu Thr Ile Glu Gly Val Asp Ala Glu Asp Gly His Gly Pro Gly
 275 280 285
 Glu Gln Gln Lys Arg Lys Ile Val Leu Asp Pro Ser Gly Ser Met Asn
 290 295 300
 Ile Tyr Leu Val Leu Asp Gly Ser Asp Ser Ile Gly Ala Ser Asn Phe
 305 310 315 320
 Thr Gly Ala Lys Lys Cys Leu Val Asn Leu Ile Glu Lys Val Ala Ser
 325 330 335
 Tyr Gly Val Lys Pro Arg Tyr Gly Leu Val Thr Tyr Ala Thr Tyr Pro
 340 345 350
 Lys Ile Trp Val Lys Val Ser Glu Ala Asp Ser Ser Asn Ala Gly Leu
 355 360 365
 Gly His Gly Ser Ser Phe Asn Xaa Xaa Gln Xaa Leu Lys Thr Thr Ser
 370 375 380
 Leu Lys Ser Gly Ala
 385

431

<210> 490

<211> 187

<212> PRT

<213> Homo sapiens

<400> 490

Ala Leu Leu Glu Gly Leu Asp Tyr Tyr Thr Gly Val Ile Tyr Glu Ala
 1 5 10 15

Val Leu Leu Gln Thr Pro Ala Gln Ala Gly Glu Glu Pro Leu Gly Val
 20 25 30

Gly Ser Val Ala Ala Gly Gly Arg Tyr Asp Gly Leu Val Gly Met Phe
 35 40 45

Asp Pro Lys Gly Arg Lys Val Pro Cys Val Gly Leu Ser Ile Gly Val
 50 55 60

Glu Arg Ile Phe Ser Ile Val Glu Gln Arg Leu Glu Ala Leu Glu Glu
 65 70 75 80

Lys Ile Arg Thr Thr Glu Thr Gln Val Leu Val Ala Ser Ala Gln Lys
 85 90 95

Lys Leu Leu Glu Glu Arg Leu Lys Leu Val Ser Glu Leu Trp Asp Ala
 100 105 110

Gly Ile Lys Ala Glu Leu Leu Tyr Lys Lys Asn Pro Lys Leu Leu Asn
 115 120 125

Gln Leu Gln Tyr Cys Glu Glu Ala Gly Ile Pro Leu Val Ala Ile Ile
 130 135 140

Gly Glu Gln Glu Leu Lys Asp Gly Val Ile Lys Leu Arg Ser Val Thr
 145 150 155 160

Ser Arg Glu Glu Val Asp Val Arg Arg Glu Asp Leu Val Glu Glu Ile
 165 170 175

Lys Arg Arg Thr Gly Gln Pro Leu Cys Ile Cys
 180 185

<210> 491

<211> 271

<212> PRT

<213> Homo sapiens

432

<400> 491

Gln Tyr Lys Arg His Cys Ile Asn Cys Leu His Val Val Thr Leu Tyr
 1 5 10 15

Asn Arg Ile Lys Arg Asp Pro Ala Lys Ala Phe Val Pro Arg Thr Val
 20 25 30

Met Ile Gly Gly Lys Ala Ala Pro Gly Tyr His Met Ala Lys Leu Ile
 35 40 45

Ile Lys Leu Val Thr Ser Ile Gly Asp Val Val Asn His Asp Pro Val
 50 55 60

Val Gly Asp Arg Leu Lys Val Ile Phe Leu Glu Asn Tyr Arg Val Ser
 65 70 75 80

Leu Ala Glu Lys Val Ile Pro Ala Ala Asp Leu Ser Gln Gln Ile Ser
 85 90 95

Thr Ala Gly Thr Glu Ala Ser Gly Thr Gly Asn Met Lys Phe Met Leu
 100 105 110

Asn Gly Ala Leu Thr Ile Gly Thr Met Asp Gly Ala Asn Val Glu Met
 115 120 125

Ala Glu Glu Ala Gly Ala Glu Asn Leu Phe Ile Phe Gly Leu Arg Val
 130 135 140

Glu Asp Val Glu Ala Leu Asp Arg Lys Gly Tyr Asn Ala Arg Glu Tyr
 145 150 155 160

Tyr Asp His Leu Pro Glu Leu Lys Gln Ala Val Asp Gln Ile Ser Ser
 165 170 175

Gly Phe Phe Ser Pro Lys Glu Pro Asp Cys Phe Lys Asp Ile Val Asn
 180 185 190

Met Leu Met His His Asp Arg Phe Lys Val Phe Ala Asp Tyr Glu Ala
 195 200 205

Tyr Met Gln Cys Gln Ala Gln Val Asp Gln Leu Tyr Arg Asn Pro Lys
 210 215 220

Glu Trp Thr Lys Lys Val Ile Arg Asn Ile Ala Cys Ser Gly Lys Phe
 225 230 235 240

Ser Ser Asp Arg Thr Ile Thr Glu Tyr Ala Arg Glu Ile Trp Gly Val
 245 250 255

Glu Pro Ser Asp Leu Gln Ile Pro Pro Pro Asn Ile Pro Arg Asp
 260 265 270

<210> 492
<211> 147
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (100)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (128)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (130)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (132)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (133)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (139)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (143)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 492
Ser Thr His Ala Ser Glu Arg Gln Ser His Gln Leu Pro Leu Val Gly
1 5 10 15
Leu Leu Leu Phe Ser Phe Ile Pro Ser Gln Leu Cys Glu Ile Cys Glu
20 25 30

Val Ser Glu Glu Asn Tyr Ile Arg Leu Lys Pro Leu Leu Asn Thr Met

35 40 45
 Ile Gln Ser Asn Tyr Asn Arg Gly Thr Ser Ala Val Asn Val Val Leu
 50 55 60
 Ser Leu Lys Leu Val Gly Ile Gln Ile Gln Thr Leu Met Gln Lys Met
 65 70 75 80
 Ile Gln Gln Ile Lys Tyr Asn Val Lys Ser Arg Leu Ser Asp Val Ser
 85 90 95
 Ser Gly Glu Xaa Ala Leu Ile Ile Leu Ala Leu Gly Val Cys Arg Asn
 100 105 110
 Ala Glu Glu Asn Leu Ile Tyr Asp Tyr His Leu Ile Asp Lys Leu Xaa
 115 120 125
 Asn Xaa Ile Xaa Xaa Gln Lys Leu Glu Asn Xaa Gly Gly Thr Xaa Trp
 130 135 140
 Ala Leu Pro
 145

<210> 493

<211> 161

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (152)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 493

Leu Asp Phe Asn Leu Thr Asp Pro Glu Asn Gly Pro Val Leu Asp Asp
 1 5 10 15
 Ser Leu Pro Asn Ser Val His Glu Tyr Ile Pro Phe Ala Lys Asp Cys
 20 25 30
 Gly Asn Lys Glu Lys Cys Ile Ser Asp Leu Ser Leu His Val Ala Thr
 35 40 45
 Thr Glu Lys Asp Leu Leu Ile Val Arg Ser Gln Asn Asp Lys Phe Asn
 50 55 60
 Val Ser Leu Thr Val Lys Asn Thr Lys Asp Ser Ala Tyr Asn Thr Arg
 65 70 75 80

435

Thr Ile Val His Tyr Ser Pro Asn Leu Val Phe Ser Gly Ile Glu Ala
 85 90 95
 Ile Gln Lys Asp Ser Cys Glu Ser Asn His Asn Ile Thr Cys Lys Val
 100 105 110
 Gly Tyr Pro Phe Leu Arg Arg Gly Glu Met Val Thr Phe Lys Ile Leu
 115 120 125
 Phe Gln Phe Asn Thr Ser Tyr Leu Met Gly Lys Cys Asp His Leu Phe
 130 135 140
 Lys Cys Thr Ser Gly Gln Arg Xaa Asn Leu Leu Lys Pro Phe Leu Ile
 145 150 155 160
 Met

<210> 494
 <211> 139
 <212> PRT
 <213> Homo sapiens

<400> 494
 Val Glu Thr Gly Trp Val Glu Leu Pro Glu Val Leu Ala Pro Ser Ser
 1 5 10 15
 Arg Arg Ala Phe Pro Ile Leu His Gly Ala Leu His Leu Asp Gln Gln
 20 25 30
 Ser Pro Gly Val Glu Ala Ser Asp Trp Arg Gly Trp Arg Gly Ala His
 35 40 45
 His Leu Cys Cys Gly Pro Gly Ile Met Ser Lys Leu Trp Leu Gly Phe
 50 55 60
 Asp Leu Arg Ala Ala Ile Ala Ala Pro Ile Leu His Val Asn Ser Lys
 65 70 75 80
 Gly Cys Val Glu Tyr Glu Pro Asn Phe Ser Gln Glu Val Gln Arg Gly
 85 90 95
 Leu Gln Asp Arg Gly Gln Asn Gln Thr Gln Arg Pro Phe Phe Leu Asn
 100 105 110
 Val Val Gln Ala Val Ser Gln Glu Gly Ala Cys Val Tyr Ala Val Ser
 115 120 125
 Asp Leu Arg Lys Ser Gly Glu Ala Ala Gly Tyr

130

135

<210> 495

<211> 215

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (139)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 495

Ala Ser His Ser Arg Gly Ser Ser Ser Ser Ser His Ser Ser Ser Val
 1 5 10 15

Arg Arg Gly Ser Ser Tyr Ser Ser Ser Met Ser Thr Gly Gly Gly Gly
 20 25 30

Ala Gly Ser Leu Gly Ala Gly Gly Ala Phe Gly Glu Ala Ala Gly Asp
 35 40 45

Arg Gly Pro Tyr Gly Thr Asp Ile Gly Pro Gly Gly Gly Tyr Gly Ala
 50 55 60

Ala Ala Glu Gly Gly Met Tyr Ala Gly Asn Gly Gly Leu Leu Gly Ala
 65 70 75 80

Asp Phe Ala Gly Asp Leu Asp Tyr Asn Glu Leu Ala Val Arg Val Ser
 85 90 95

Glu Ser Met Gln Arg Gln Gly Leu Leu Gln Gly Met Ala Tyr Thr Val
 100 105 110

Gln Gly Pro Pro Gly Gln Pro Gly Pro Gln Gly Pro Pro Gly Ile Ser
 115 120 125

Lys Val Phe Ser Ala Tyr Ser Asn Val Thr Xaa Asp Leu Met Asp Phe
 130 135 140

Phe Gln Thr Tyr Gly Ala Ile Gln Gly Pro Pro Gly Gln Lys Gly Glu
 145 150 155 160

Met Gly Thr Pro Gly Pro Lys Gly Asp Arg Gly Pro Ala Gly Pro Pro
 165 170 175

Gly His Pro Gly Pro Pro Gly Pro Ser Arg Thr Gln Gly Arg Lys Arg
 180 185 190

Arg Gln Arg Leu Thr Lys Ser Met Leu Gly Gly Glu Gly Glu Glu Val
 195 200 205

Ile Gly Cys Gln Pro Leu Ser
 210 215

<210> 496

<211> 309

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (247)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 496

Pro Pro Gly Ile Pro Gly Gln Pro Gly Leu Lys Gly Leu Pro Gly Pro
 1 5 10 15

Gln Gly Pro Gln Gly Leu Pro Gly Pro Thr Gly Pro Pro Gly Asp Pro
 20 25 30

Gly Arg Asn Gly Leu Pro Gly Phe Asp Gly Ala Gly Gly Arg Lys Gly
 35 40 45

Asp Pro Gly Leu Pro Gly Gln Pro Gly Thr Arg Gly Leu Asp Gly Pro
 50 55 60

Pro Gly Pro Asp Gly Leu Gln Gly Pro Pro Gly Pro Pro Gly Thr Ser
 65 70 75 80

Ser Val Ala His Gly Phe Leu Ile Thr Arg His Ser Gln Thr Thr Asp
 85 90 95

Ala Pro Gln Cys Pro Gln Gly Thr Leu Gln Val Tyr Glu Gly Phe Ser
 100 105 110

Leu Leu Tyr Val Gln Gly Asn Lys Arg Ala His Gly Gln Asp Leu Gly
 115 120 125

Thr Ala Gly Ser Cys Leu Arg Arg Phe Ser Thr Met Pro Phe Met Phe
 130 135 140

Cys Asn Ile Asn Asn Val Cys Asn Phe Ala Ser Arg Asn Asp Tyr Ser
 145 150 155 160

Tyr Trp Leu Ser Thr Pro Glu Pro Met Pro Met Ser Met Gln Pro Leu
 165 170 175

Lys Gly Gln Ser Ile Gln Pro Phe Ile Ser Arg Cys Ala Val Cys Glu
 180 185 190
 Ala Pro Ala Val Val Ile Ala Val His Ser Gln Thr Ile Gln Ile Pro
 195 200 205
 His Cys Pro Gln Gly Trp Asp Ser Leu Trp Ile Gly Tyr Ser Phe Met
 210 215 220
 Met His Thr Ser Ala Gly Ala Glu Gly Ser Gly Gln Ala Leu Ala Ser
 225 230 235 240
 Pro Gly Ser Cys Leu Glu Xaa Phe Arg Ser Ala Pro Phe Ile Glu Cys
 245 250 255
 His Gly Arg Gly Thr Cys Asn Tyr Tyr Ala Asn Ser Tyr Ser Phe Trp
 260 265 270
 Leu Ala Thr Val Asp Val Ser Asp Met Phe Ser Lys Pro Gln Ser Glu
 275 280 285
 Thr Leu Lys Ala Gly Asp Leu Arg Thr Arg Ile Ser Arg Cys Gln Val
 290 295 300
 Cys Met Lys Arg Thr
 305

<210> 497

<211> 40

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 497

Thr Leu Cys Tyr Cys Ser Ser Gln Met Leu Phe Tyr Ile Cys Lys Lys
 1 5 10 15

Leu Thr Ser His Gln Met Leu Ser Ser Thr Glu Ile Leu Lys Trp Leu
 20 25 30

Arg Gly Asn Ile Asp Xaa Gln Xaa
 35 40

<210> 498

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 498

Cys Pro Arg Ser Leu Xaa Tyr Phe Arg Met Tyr Ala Lys Glu Phe Asp
 1 5 10 15

Leu Leu Lys Tyr Ile Arg Phe Lys Thr Thr Val Cys Ser Val Lys Lys
 20 25 30

Gln Pro Asp Phe Ala Thr Ser Gly Gln Trp Glu Val Val Thr Glu Ser
 35 40 45

Glu Gly Lys Lys Glu Met Asn Val Phe Asp Gly Val Met Val Cys Thr
 50 55 60

Gly His His Thr Asn Ala His Leu Pro Leu Glu Ser Phe Pro Gly Glu
 65 70 75 80

Gln Leu Thr Arg Lys Glu Asp Pro
 85

<210> 499

<211> 253

<212> PRT

<213> Homo sapiens

<400> 499

Leu Arg Trp Leu Pro Ala Ala Ser Thr Ser Leu Ala Ala Leu Ala Thr
 1 5 10 15

Leu Ala Asp Cys Cys Ala Ala Gly Ala Met Ser Val Ser Glu Ile Phe
 20 25 30

Val Glu Leu Gln Gly Phe Leu Ala Ala Glu Gln Asp Ile Arg Glu Glu
 35 40 45

440

Ile Arg Lys Val Val Gln Ser Leu Glu Gln Thr Ala Arg Glu Ile Leu
 50 55 60
 Thr Leu Leu Gln Gly Val His Gln Gly Ala Gly Phe Gln Asp Ile Pro
 65 70 75 80
 Lys Arg Cys Leu Lys Ala Arg Glu His Phe Gly Thr Val Lys Thr His
 85 90 95
 Leu Thr Ser Leu Lys Thr Lys Phe Pro Ala Glu Gln Tyr Tyr Arg Phe
 100 105 110
 His Glu His Trp Arg Phe Val Leu Gln Arg Leu Val Phe Leu Ala Ala
 115 120 125
 Phe Val Val Tyr Leu Glu Thr Glu Thr Leu Val Thr Arg Glu Ala Val
 130 135 140
 Thr Glu Ile Leu Gly Ile Glu Pro Asp Arg Glu Lys Gly Phe His Leu
 145 150 155 160
 Asp Val Glu Asp Tyr Leu Ser Gly Val Leu Ile Leu Ala Ser Glu Leu
 165 170 175
 Ser Arg Leu Ser Val Asn Ser Val Thr Ala Gly Asp Tyr Ser Arg Pro
 180 185 190
 Leu His Ile Ser Thr Phe Ile Asn Glu Leu Asp Ser Gly Phe Arg Leu
 195 200 205
 Leu Asn Leu Lys Asn Asp Ser Leu Arg Lys Arg Tyr Asp Gly Leu Lys
 210 215 220
 Tyr Asp Val Lys Lys Val Glu Glu Val Val Tyr Asp Leu Ser Ile Arg
 225 230 235 240
 Gly Phe Asn Lys Glu Thr Ala Ala Ala Cys Val Glu Lys
 245 250

<210> 500

<211> 169

<212> PRT

<213> Homo sapiens

<400> 500

Arg Thr Arg Gly Arg Thr Arg Gly Leu Glu Phe Gly Leu Gln Pro His
 1 5 10 15

441

Lys Ile Pro Asp Thr Glu Thr Leu Cys Tyr Val Met Pro Ser Ser Ser
20 25 30

Ala Arg Cys Ala Gln Phe Pro Arg Ala Gln Asp Lys Val His Tyr Tyr
35 40 45

Ile Lys Leu Lys Asp Leu Arg Asp Gln Leu Lys Gly Ile Glu Arg Asn
50 55 60

Met Asp Val Gln Glu Val Gln Tyr Thr Phe Asp Leu Gln Leu Ala Gln
65 70 75 80

Glu Asp Ala Lys Lys Met Ala Val Lys Glu Glu Lys Tyr Asp Pro Gly
85 90 95

Tyr Glu Ala Ala Tyr Gly Gly Ala Tyr Gly Glu Asn Pro Cys Ser Ser
100 105 110

Glu Pro Cys Gly Phe Ser Ser Asn Gly Leu Ile Glu Ser Val Glu Leu
115 120 125

Arg Gly Glu Ser Ala Phe Ser Gly Ile Pro Asn Gly Gln Trp Met Thr
130 135 140

Gln Ser Phe Thr Asp Gln Ile Pro Ser Phe Ser Asn His Cys Gly Thr
145 150 155 160

Gln Glu Gln Glu Glu Glu Ser His Ala
165

<210> 501

<211> 119

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (55)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (83)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (88)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (97)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (99)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (101)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (117)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 501
 Gly His Xaa Ala Arg Gln Gly His Leu Ser Ser Pro Thr Asp Gly Xaa
 1 5 10 15
 Arg Gln Gly His Ser Gln Phe Trp Glu Val Ile Ser Asp Glu His Ala
 20 25 30
 Ile Asp Ser Ala Gly Thr Tyr His Gly Asp Ser His Leu Gln Leu Glu
 35 40 45
 Arg Ile Asn Val Tyr Xaa Xaa Glu Ala Ser Gly Gly Arg Tyr Val Pro
 50 55 60
 Arg Ala Val Leu Val Asp Leu Glu Pro Gly Thr Met Asp Ser Val Arg
 65 70 75 80

Ser Gly Xaa Phe Gly Gln Val Xaa Arg Pro Asp Asn Phe Ile Phe Gly
85 90 95
Xaa Leu Xaa Ala Xaa Thr Gly Val Arg Leu Leu Ser Gln Gly Ser Ser
100 105 110
Lys Ser Arg Asn Xaa Pro Arg
115

<210> 502
<211> 112
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (103)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (109)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (110)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 502
Thr His Leu Trp Lys Arg Asn Pro Cys Asp Cys Gly Thr Lys Lys Ser
1 5 10 15

Ala Ser Tyr Gln Thr Ile Arg Phe Cys His Glu Lys Trp Xaa Lys Cys
 20 25 30

Arg Leu Ser Gly Glu Gly Phe Tyr Pro Lys Xaa Ile Arg Ile Asn Leu
 35 40 45

Val Ser Ser Lys Lys Xaa Thr Glu Phe Asp Pro Ala Ile Val Ile Ser
 50 55 60

Pro Ser Gly Lys Tyr Asn Ala Val Asn Leu Gly Lys Tyr Glu Asp Ser
 65 70 75 80

Asn Ser Val Thr Cys Ser Val Gln His Asp Asn Lys Thr Val His Ser
 85 90 95

Thr Asp Phe Gly Ser Glu Xaa Arg Phe Tyr Arg Ser Xaa Xaa Thr Lys
 100 105 110

<210> 503

<211> 156

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (137)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 503

Asp Ser Ser His Arg Ser Arg Arg His His Arg Ala Ser Ala Ser Ala
 1 5 10 15

Ala Ala Ala Ala Ala Pro Gly Pro Arg Pro Phe Ala Ala Leu Val Xaa
 20 25 30

Pro Ala Leu Leu Arg Arg Arg Leu Pro Pro Arg Pro Ala Met Pro Leu
 35 40 45

Tyr Ser Val Thr Val Lys Trp Gly Lys Glu Lys Phe Glu Gly Val Glu
 50 55 60

Leu Asn Thr Asp Glu Pro Pro Met Val Phe Lys Ala Gln Leu Phe Ala
65 70 75 80

Leu Thr Gly Val Gln Pro Ala Arg Gln Lys Val Met Val Lys Gly Gly
85 90 95

Thr Leu Lys Asp Asp Asp Trp Gly Asn Ile Lys Ile Lys Asn Gly Met
100 105 110

Thr Leu Leu Met Met Gly Ser Ala Asp Ala Leu Pro Glu Glu Pro Ser
115 120 125

Ala Lys Thr Val Phe Val Glu Asp Xaa Asp Arg Arg Thr Val Ser Ile
130 135 140

Cys Tyr Gly Val Thr Met Trp Ile Asp Lys Pro Trp
145 150 155

<210> 504

<211> SITE

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (154)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 504

Val Phe Lys Glu Gln Glu Leu Xaa Pro Glu Asp Lys Gly Ala Val Pro
1 5 10 15

Glu Asp Ala Ser Thr Glu Arg Ser Ala Met Ala Ser Leu Gly Leu Gln
20 25 30

Leu Val Gly Tyr Ile Leu Gly Leu Leu Gly Leu Leu Gly Thr Leu Val
 35 40 45
 Ala Met Leu Leu Pro Ser Trp Lys Thr Ser Ser Tyr Val Gly Ala Ser
 50 55 60
 Ile Val Thr Ala Val Gly Phe Ser Lys Gly Leu Trp Met Glu Cys Ala
 65 70 75 80
 Thr His Ser Thr Gly Ile Thr Gln Cys Asp Ile Tyr Ser Thr Leu Leu
 85 90 95
 Gly Leu Pro Ala Asp Ile Gln Xaa Ala Gln Ala Met Met Val Thr Ser
 100 105 110
 Ser Ala Ile Ser Xaa Leu Ala Cys Ile Ile Ser Val Val Gly Met Arg
 115 120 125
 Cys Thr Val Phe Cys Gln Glu Ser Arg Ala Lys Asp Arg Val Ala Val
 130 135 140
 Ala Gly Gly Val Phe Phe Ile Leu Gly Xaa Leu
 145 150 155

<210> 505

<211> 120

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 505

Ser Asp His Pro Pro Pro Ala Leu His Gln Ala Thr Gly Leu Gly
 1 5 10 15
 Phe Leu Leu Ile Thr Ile Cys Cys Tyr His Gly Thr Gln Gln Gly Ile
 20 25 30
 Pro Gly Pro Pro Ala Lys Trp Leu Pro Lys Ser Pro Leu Leu Thr Gln
 35 40 45
 Lys Ser Gly Met Ala Leu Lys Arg Cys Lys Phe Leu Tyr Cys Tyr Pro
 50 55 60
 Pro His His Gln Asp His Val Gly Cys Ser Leu Xaa Ser Leu Thr Arg

447

[illegible]

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<210> 506
<211> 102
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (80)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (92)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 506
Pro Phe Gln Pro Pro Leu Leu Asp Leu Arg Arg Pro Ser Gln Gln Ser
   1                   5               10             15
```

Gln Trp Pro Gln His Leu Ala Gly Gln Leu Pro Ser Leu Leu Ile Cys
20 25 30

Gln Thr Arg Thr Gln Thr Lys Pro Met Arg Asn Gly Xaa Thr Ala Ser
35 40 45

Glu Ser Ser Asp Phe Thr Ser Glu Arg Arg Gly Asp Lys Glu Ala Pro
50 55 60

Pro Pro Val Leu Leu Thr Pro Lys Ala Val Gly Thr Pro Gly Gly Xaa
65 70 75 80

Gly Gly Gly Ala Leu Pro Gly Ile Ser Ala Met Xaa Arg Gly Asp Leu
85 90 95

Ser Gln Arg Ala Lys Ile
100

<210> 507

<211> 103

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 507

Cys Gln Gln Leu Ile Tyr Glu Pro Thr Ile Val Pro His Cys Thr Lys
1 5 10 15

Val Ser His Lys Arg Asn Arg Ile Phe Trp Ser Thr Asp Cys Ser Arg
20 25 30

Val Ala Pro Leu Cys Ala Ala Gly Val Val Val Phe Ile Phe Met Val
35 40 45

Arg Phe Asn Ile Asn Tyr Leu Ser Cys His Ala Phe Phe Phe Leu Gln
50 55 60

Phe Ser Arg Xaa Ser Thr Glu Gln Phe Leu Ile Ser Tyr Leu Glu Tyr
65 70 75 80

Glu Ser Arg Phe Tyr Phe Val Met Leu Ile Ile Pro Lys Asp Ala Leu
85 90 95

Asn Ala Trp Lys Asn Ala Phe
100

<210> 508

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 508

Glu	Pro	Pro	Leu	Ile	Val	Ser	Ser	Phe	Ser	Gly	Gln	Glu	Ala	Gln	Thr
1				5					10					15	

Glu	Leu	Pro	Gln	Ala	Arg	Ile	Ser	Cys	Pro	Glu	Gly	Thr	Asn	Ala	Xaa
			20					25					30		

Arg	Ser	Tyr	Xaa	Tyr	Tyr	Phe	Asn	Gly	Arg	Pro	Trp	Arg	Pro	Gly	Leu
		35					40					45			

Met	Gln	Met
		50

<210> 509

<211> 73

<212> PRT

<213> Homo sapiens

<400> 509

Ile	Phe	Leu	Tyr	Phe	Thr	Trp	Ala	Ser	Leu	Tyr	Thr	Ala	Ile	Tyr	Thr
1				5					10					15	

Ile	Ile	Ser	Tyr	Ser	Tyr	Met	Phe	Phe	Val	Pro	Phe	Val	Val	Leu	Phe
			20					25					30		

Val	Leu	Leu	Asp	Ser	Tyr	Leu	Asp	Gly	Asn	Ala	Leu	Ser	Gly	Phe	Gly
			35				40					45			

Cys	Phe	Ser	Cys	Phe	Ser	Ile	Cys	Ile	Lys	Lys	Leu	Val	His	Val	Asn
		50				55					60				

Thr	Phe	His	Val	Phe	Ser	Ser	Asn	Val
	65					70		

<210> 510

<211> 218

<212> PRT

<213> Homo sapiens

<400> 510

Glu	Thr	Arg	Val	Pro	Ala	Arg	Pro	Gly	Gln	Ala	Arg	Ala	Met	Glu	Phe
1				5				10					15		

450

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Leu Trp Ala Pro Leu Leu Gly Leu Cys Cys Ser Leu Ala Ala Ala Asp
      20                      25                      30

Arg His Thr Val Phe Trp Asn Ser Ser Asn Pro Lys Phe Arg Asn Glu
      35                      40                      45

Asp Tyr Thr Ile His Val Gln Leu Asn Asp Tyr Val Asp Ile Ile Cys
      50                      55                      60

Pro His Tyr Glu Asp His Ser Val Ala Asp Ala Ala Met Glu Gln Tyr
      65                      70                      75                      80

Ile Leu Tyr Leu Val Glu His Glu Glu Tyr Gln Leu Cys Gln Pro Gln
      85                      90                      95

Ser Lys Asp Gln Val Arg Trp Gln Cys Asn Arg Pro Ser Ala Lys His
      100                     105                     110

Gly Pro Glu Lys Leu Ser Glu Lys Phe Gln Arg Phe Thr Pro Phe Thr
      115                     120                     125

Leu Gly Lys Glu Phe Lys Glu Gly His Ser Tyr Tyr Tyr Ile Ser Lys
      130                     135                     140

Pro Ile His Gln His Glu Asp Arg Cys Leu Arg Leu Lys Val Thr Val
      145                     150                     155                     160

Ser Gly Lys Ile Thr His Ser Pro Gln Ala His Asp Asn Pro Gln Glu
      165                     170                     175

Lys Arg Leu Ala Ala Asp Asp Pro Glu Val Arg Val Leu His Ser Ile
      180                     185                     190

Gly His Ser Ala Ala Pro Arg Leu Phe Pro Leu Ala Trp Thr Val Leu
      195                     200                     205

Leu Leu Pro Leu Leu Leu Leu Gln Thr Pro
      210                     215

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<210> 511

<211> 156

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (156)

<223> Xaa equals any of the naturally occurring L-amino acids

451

<400> 511

Phe Phe Ser His Leu Asp Cys Lys Met Lys Leu Leu Val Leu Ala Val
 1 5 10 15
 Leu Leu Thr Val Ala Ala Ala Asp Ser Gly Ile Ser Pro Arg Ala Val
 20 25 30
 Trp Gln Phe Arg Lys Met Ile Lys Cys Val Ile Pro Gly Ser Asp Pro
 35 40 45
 Phe Leu Glu Tyr Asn Asn Tyr Gly Cys Tyr Cys Gly Leu Gly Gly Ser
 50 55 60
 Gly Thr Pro Val Asp Glu Leu Asp Lys Cys Cys Gln Thr His Asp Asn
 65 70 75 80
 Cys Tyr Asp Gln Ala Lys Lys Leu Asp Ser Cys Lys Phe Leu Leu Asp
 85 90 95
 Asn Pro Tyr Thr His Thr Tyr Ser Tyr Ser Cys Ser Gly Ser Ala Ile
 100 105 110
 Thr Cys Ser Ser Lys Asn Lys Glu Cys Glu Ala Phe Ile Cys Asn Cys
 115 120 125
 Asp Arg Asn Ala Ala Ile Cys Phe Ser Lys Ala Pro Tyr Asn Lys Ala
 130 135 140
 His Lys Asn Leu Asp Thr Lys Lys Tyr Cys Gln Xaa
 145 150 155

<210> 512

<211> 169

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 512

Glu Ser Arg Pro Ala Asp Arg Arg Val Leu Pro Pro Ile His Val Lys
 1 5 10 15

452

Met Thr Lys Phe Gly Phe Leu Arg Leu Ser Tyr Glu Lys Gln Asp Thr
 20 25 30
 Leu Leu Lys Leu Leu Ile Leu Ser Met Ala Ala Val Leu Ser Phe Ser
 35 40 45
 Thr Arg Leu Phe Ala Val Leu Arg Phe Glu Ser Val Ile His Glu Phe
 50 55 60
 Asp Pro Tyr Phe Asn Tyr Arg Thr Thr Arg Phe Leu Ala Glu Glu Gly
 65 70 75 80
 Phe Tyr Lys Phe His Asn Trp Phe Asp Asp Arg Ala Trp Tyr Pro Leu
 85 90 95
 Gly Arg Ile Ile Gly Gly Thr Ile Tyr Pro Gly Leu Met Ile Thr Ser
 100 105 110
 Ala Ala Ile Tyr His Val Leu His Phe Phe His Ile Thr Ile Asp Ile
 115 120 125
 Arg Asn Val Cys Val Phe Leu Ala Pro Leu Phe Ser Ser Phe Xaa Xaa
 130 135 140
 Ile Val Thr Tyr His Leu Thr Lys Glu Leu Lys Asp Ala Gly Ala Gly
 145 150 155 160
 Leu Leu Ala Ala Ala Met Ile Ala Val
 165

<210> 513

<211> 330

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 513

Ser Leu Cys Ser Arg Leu Phe Glu Leu Xaa Val Tyr Gln Gln Gly Asp
 1 5 10 15

Leu Asp Lys Ala Leu Leu Leu Thr Lys Lys Leu Leu Glu Leu Asp Pro
 20 25 30

Glu His Gln Arg Ala Asn Gly Asn Leu Lys Tyr Phe Glu Tyr Ile Met

Ala	Lys	Glu	Lys	Asp	Val	Asn	Lys	Ser	Ala	Ser	Asp	Gln	Ser	Asp	
50						55					60				
Gln	Lys	Thr	Thr	Pro	Lys	Lys	Lys	Gly	Val	Ala	Val	Asp	Tyr	Leu	Pro
65					70					75					80
Glu	Arg	Gln	Lys	Tyr	Glu	Met	Leu	Cys	Arg	Gly	Glu	Gly	Ile	Lys	Met
				85					90					95	
Thr	Pro	Arg	Arg	Gln	Lys	Lys	Leu	Phe	Cys	Arg	Tyr	His	Asp	Gly	Asn
			100					105					110		
Arg	Asn	Pro	Lys	Phe	Ile	Leu	Ala	Pro	Ala	Lys	Gln	Glu	Asp	Glu	Trp
		115					120					125			
Asp	Lys	Pro	Arg	Ile	Ile	Arg	Phe	His	Asp	Ile	Ile	Ser	Asp	Ala	Glu
	130					135					140				
Ile	Glu	Ile	Val	Lys	Asp	Leu	Ala	Lys	Pro	Arg	Leu	Arg	Arg	Ala	Thr
145					150					155					160
Ile	Ser	Asn	Pro	Ile	Thr	Gly	Asp	Leu	Glu	Thr	Val	His	Tyr	Arg	Ile
				165					170					175	
Ser	Lys	Ser	Ala	Trp	Leu	Ser	Gly	Tyr	Glu	Asn	Pro	Val	Val	Ser	Arg
			180					185					190		
Ile	Asn	Met	Arg	Ile	Gln	Asp	Leu	Thr	Gly	Leu	Asp	Val	Ser	Thr	Ala
	195						200					205			
Glu	Glu	Leu	Gln	Val	Ala	Asn	Tyr	Gly	Val	Gly	Gly	Gln	Tyr	Glu	Pro
	210					215					220				
His	Phe	Asp	Phe	Ala	Arg	Lys	Asp	Glu	Pro	Asp	Ala	Phe	Lys	Glu	Leu
225					230					235					240
Gly	Thr	Gly	Asn	Arg	Ile	Ala	Thr	Trp	Leu	Phe	Tyr	Met	Ser	Asp	Val
				245					250					255	
Ser	Ala	Gly	Gly	Ala	Thr	Val	Phe	Pro	Glu	Val	Gly	Ala	Ser	Val	Trp
			260					265					270		
Pro	Lys	Lys	Gly	Thr	Ala	Val	Phe	Trp	Tyr	Asn	Leu	Phe	Ala	Ser	Gly
		275					280					285			
Glu	Gly	Asp	Tyr	Ser	Thr	Arg	His	Ala	Ala	Cys	Pro	Val	Leu	Val	Gly
	290					295					300				
Asn	Lys	Trp	Val	Ser	Asn	Lys	Trp	Leu	His	Glu	Arg	Gly	Gln	Glu	Phe

305 310 315 320

Arg Arg Pro Cys Thr Leu Ser Glu Leu Glu
325 330

<210> 514

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 514

Xaa Tyr Leu Val Leu Xaa Xaa Xaa Ser Gly Ile Phe Ser Ser His Phe
1 5 10 15

His Trp His Lys Ser Leu Leu Tyr Val Ile Gln Phe Lys Leu Leu Asn
20 25 30

Gln Lys Phe Tyr Gly Pro Val Ser Leu Ala Lys Arg Cys Trp Arg Glu
35 40 45

Cys Asn Ile Gln Leu Ile Cys Gly Tyr Ile Tyr Ile
50 55 60

<210> 515

<211> 311

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (155)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 515

Ala	Glu	Asp	Val	Asp	His	Asp	Gly	Gly	Leu	Gly	Gly	Leu	Gln	His	His	1	5	10	15
Pro	Thr	Pro	His	Pro	Arg	Pro	Arg	Pro	Gly	Asp	Tyr	Ser	Gln	Val	Leu	20	25	30	
Phe	Glu	Arg	Pro	Gly	Ile	Trp	Lys	Asp	Leu	Lys	Thr	Met	Gly	Ser	Val	35	40	45	
Ser	Leu	Ser	Ile	Phe	Phe	Ile	Thr	Leu	Leu	Val	Leu	Gly	Arg	Gln	Asn	50	55	60	
Glu	Tyr	Tyr	Cys	Arg	Leu	Asp	Phe	Leu	Trp	Lys	Asn	Lys	Phe	Lys	Lys	65	70	75	80
Glu	Arg	Glu	Glu	Ile	Glu	Thr	Met	Glu	Asn	Leu	Asn	Arg	Val	Leu	Leu	85	90	95	
Glu	Asn	Val	Leu	Pro	Ala	His	Val	Ala	Glu	His	Phe	Leu	Ala	Arg	Ser	100	105	110	
Leu	Lys	Asn	Glu	Glu	Leu	Tyr	His	Gln	Ser	Tyr	Asp	Cys	Val	Cys	Val	115	120	125	
Met	Phe	Ala	Ser	Ile	Pro	Asp	Phe	Lys	Glu	Phe	Tyr	Thr	Glu	Ser	Asp	130	135	140	
Val	Asn	Lys	Glu	Gly	Leu	Glu	Cys	Leu	Arg	Xaa	Leu	Asn	Glu	Ile	Ile	145	150	155	160
Ala	Asp	Phe	Asp	Asp	Leu	Leu	Ser	Lys	Pro	Lys	Phe	Ser	Gly	Val	Glu	165	170	175	
Lys	Ile	Lys	Thr	Ile	Gly	Ser	Thr	Tyr	Met	Ala	Ala	Thr	Gly	Leu	Ser	180	185	190	
Ala	Val	Pro	Ser	Gln	Glu	His	Ser	Gln	Glu	Pro	Glu	Arg	Gln	Tyr	Met	195	200	205	
His	Ile	Gly	Thr	Met	Val	Glu	Phe	Ala	Phe	Ala	Leu	Val	Gly	Lys	Leu	210	215	220	
Asp	Ala	Ile	Asn	Lys	His	Ser	Phe	Asn	Asp	Phe	Lys	Leu	Arg	Val	Gly	225	230	235	240

456

Ile Asn His Gly Pro Val Ile Ala Gly Val Ile Gly Ala Gln Lys Pro
 245 250 255

Gln Tyr Asp Ile Trp Gly Asn Thr Val Asn Val Ala Ser Arg Met Asp
 260 265 270

Ser Thr Gly Val Leu Asp Lys Ile Gln Val Thr Glu Glu Thr Ser Leu
 275 280 285

Val Leu Gln Thr Leu Gly Tyr Thr Cys Thr Cys Arg Gly Ile Ile Gln
 290 295 300

Arg Glu Arg Glu Arg Gly Thr
 305 310

<210> 516

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 516

Ser Gly Leu Leu Val Leu Ser Val Leu Leu Gly Ala Val Phe Gly Lys
 1 5 10 15

Glu Asp Phe Val Gly His Gln Val Leu Arg Ile Ser Val Ala Asp Glu
 20 25 30

Ala Gln Val Gln Lys Val Lys Glu Leu Glu Asp Leu Glu His Leu Gln
 35 40 45

Leu Asp Phe Trp Arg Gly Pro Ala His Pro Gly Ser Pro Ile Asp Val
 50 55 60

Arg Val Pro Phe Pro Ser Ile Gln Ala Val Lys Ile Phe Leu Glu Phe
 65 70 75 80

His Gly Ile Xaa Tyr
 85

<210> 517

<211> 406

<212> PRT

<213> Homo sapiens

<400> 517

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Gly His Glu Gly Ser Met Arg Gly Leu Leu Val Leu Ser Val Leu Leu
  1             5             10             15

Gly Ala Val Phe Gly Lys Glu Asp Phe Val Gly His Gln Val Leu Arg
      20             25             30

Ile Ser Val Ala Asp Glu Ala Gln Val Gln Lys Val Lys Glu Leu Glu
      35             40             45

Asp Leu Glu His Leu Gln Leu Asp Phe Trp Arg Gly Pro Ala His Pro
      50             55             60

Gly Ser Pro Ile Asp Val Arg Val Pro Phe Pro Ser Ile Gln Ala Val
      65             70             75             80

Lys Ile Phe Leu Glu Ser His Gly Ile Ser Tyr Glu Thr Met Ile Glu
      85             90             95

Asp Val Gln Ser Leu Leu Asp Glu Glu Gln Glu Gln Met Phe Ala Phe
      100            105            110

Arg Ser Arg Ala Arg Ser Thr Asp Thr Phe Asn Tyr Ala Thr Tyr His
      115            120            125

Thr Leu Glu Glu Ile Tyr Asp Phe Leu Asp Leu Leu Val Ala Glu Asn
      130            135            140

Pro His Leu Val Ser Lys Ile Gln Ile Gly Asn Thr Tyr Glu Gly Arg
      145            150            155            160

Pro Ile Tyr Val Leu Lys Phe Ser Thr Gly Gly Ser Lys Arg Pro Ala
      165            170            175

Ile Trp Ile Asp Thr Gly Ile His Ser Arg Glu Trp Val Thr Gln Ala
      180            185            190

Ser Gly Val Trp Phe Ala Lys Lys Ile Thr Gln Asp Tyr Gly Gln Asp
      195            200            205

Ala Ala Phe Thr Ala Ile Leu Asp Thr Leu Asp Ile Phe Leu Glu Ile
      210            215            220

Val Thr Asn Pro Asp Gly Phe Ala Phe Thr His Ser Thr Asn Arg Met
      225            230            235            240

Trp Arg Lys Thr Arg Ser His Thr Ala Gly Ser Leu Cys Ile Gly Val
      245            250            255

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Asp Pro Asn Arg Asn Trp Asp Ala Gly Phe Gly Leu Ser Gly Ala Ser
 260 265 270
 Ser Asn Pro Cys Ser Glu Thr Tyr His Gly Lys Phe Ala Asn Ser Glu
 275 280 285
 Val Glu Val Lys Ser Ile Val Asp Phe Val Lys Asp His Gly Asn Ile
 290 295 300
 Lys Ala Phe Ile Ser Ile His Ser Tyr Ser Gln Leu Leu Met Tyr Pro
 305 310 315 320
 Tyr Gly Tyr Lys Thr Glu Pro Val Pro Asp Gln Asp Glu Leu Asp Gln
 325 330 335
 Leu Ser Lys Ala Ala Val Thr Ala Leu Ala Ser Leu Tyr Gly Thr Lys
 340 345 350
 Phe Asn Tyr Gly Ser Ile Ile Lys Ala Ile Tyr Gln Ala Ser Gly Ser
 355 360 365
 Thr Ile Asp Trp Thr Tyr Ser Gln Gly Ile Lys Tyr Ser Phe Thr Phe
 370 375 380
 Glu Leu Arg Asp Thr Gly Arg Tyr Gly Phe Leu Leu Pro Ala Ser Gln
 385 390 395 400
 Ile Ile Pro Thr Ala Asn
 405

<210> 518

<211> 217

<212> PRT

<213> Homo sapiens

<400> 518

Arg Ala Ala Val Gln Ser Arg His Leu Val Gly Ala Lys Pro Thr Pro
 1 5 10 15
 Gly Ser Glu Gln Gln Pro Leu Arg Cys Pro Trp Pro Val Ser Phe His
 20 25 30
 Leu Ser Thr Ser Met Gly Asn Ile Phe Ala Asn Leu Phe Lys Gly Leu
 35 40 45
 Phe Gly Lys Lys Glu Met Arg Ile Leu Met Val Gly Leu Asp Ala Ala
 50 55 60

Gly Lys Thr Thr Ile Leu Tyr Lys Leu Lys Leu Gly Glu Ile Val Thr
 65 70 75 80
 Thr Ile Pro Thr Ile Gly Phe Asn Val Glu Thr Val Glu Tyr Lys Asn
 85 90 95
 Ile Ser Phe Thr Val Trp Asp Val Gly Gly Gln Asp Lys Ile Arg Pro
 100 105 110
 Leu Trp Arg His Tyr Phe Gln Asn Thr Gln Gly Leu Ile Phe Val Val
 115 120 125
 Asp Ser Asn Asp Arg Glu Arg Val Asn Glu Ala Arg Glu Glu Leu Met
 130 135 140
 Arg Met Leu Ala Glu Asp Glu Leu Arg Asp Ala Val Leu Leu Val Phe
 145 150 155 160
 Ala Asn Lys Gln Asp Leu Pro Asn Ala Met Asn Ala Ala Glu Ile Thr
 165 170 175
 Asp Lys Leu Gly Leu His Ser Leu Arg His Arg Asn Trp Tyr Ile Gln
 180 185 190
 Ala Thr Cys Ala Thr Ser Gly Asp Gly Leu Tyr Glu Gly Leu Asp Trp
 195 200 205
 Leu Ser Asn Gln Leu Arg Asn Gln Lys
 210 215

<210> 519

<211> 112

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

460

<400> 519

Leu Leu Phe Leu Lys Arg Cys Ser Val Lys Leu Ala Leu Arg Val Arg
 1 5 10 15

Glu Ala Cys Asp Leu Lys Thr Glu Asn Trp Glu Glu Thr Leu Tyr Pro
 20 25 30

Val Leu Leu Ala Gly Phe Asp Arg Ser Arg Ser Ala Trp Asp Phe Leu
 35 40 45

Lys Leu Cys Pro Lys Leu Gln Leu Trp Glu Trp Arg Asn Lys Gln Ala
 50 55 60

Ser Pro Arg Ile Val Lys Glu Ile Ala Leu Val Asp Glu Thr Lys Thr
 65 70 75 80

Asn Ala Leu Asp Phe Xaa Ala Leu Pro Gly Val Val Thr Arg Gly Xaa
 85 90 95

Asn Val Cys Gly His Ile Leu Asn Ser Lys Val Phe Ser Ser Xaa Gly
 100 105 110

<210> 520

<211> 71

<212> PRT

<213> Homo sapiens

<400> 520

Lys Ala Arg Val Gln Ile Arg Leu Val Ser Leu Val Gly Asp Tyr Phe
 1 5 10 15

Trp Val His Ser Val Val Gln Glu Thr Leu Val Lys His Leu Leu Leu
 20 25 30

Leu Asp Thr Met Leu Asp Thr Glu Asp Asn Glu Gly Lys Ile Asp Ile
 35 40 45

Val Pro Ala Leu Met Glu Leu Ile Val Ser Cys Gly Leu Ser Glu Gln
 50 55 60

Ser Leu Asn Leu Leu Leu Tyr
 65 70

461

<210> 521
<211> 183
<212> PRT
<213> Homo sapiens

<400> 521
Ala Ala Val Asn His Leu Gln Ser Ala Gly Ser Thr Ser Pro Ile Leu
1 5 10 15
Ala Ala Ala Gln Ser Leu His Arg Glu Ala Thr Lys Trp Ser Ser Lys
20 25 30
Gly Asn Asp Ile Ile Ala Ala Ala Lys Arg Met Ala Leu Leu Met Ala
35 40 45
Glu Met Ser Arg Leu Val Arg Gly Gly Ser Gly Thr Lys Arg Ala Leu
50 55 60
Ile Gln Cys Ala Lys Asp Ile Ala Lys Ala Ser Asp Glu Val Thr Arg
65 70 75 80
Leu Ala Lys Glu Val Ala Lys Gln Cys Thr Asp Lys Arg Ile Arg Thr
85 90 95
Asn Leu Leu Gln Val Cys Glu Arg Ile Pro Thr Ile Ser Thr Gln Leu
100 105 110
Lys Ile Leu Ser Thr Val Lys Ala Thr Met Leu Gly Arg Thr Asn Ile
115 120 125
Ser Asp Glu Glu Ser Glu Gln Ala Thr Glu Met Leu Val His Asn Ala
130 135 140
Gln Asn Leu Met Gln Ser Val Lys Glu Thr Val Arg Glu Ala Glu Ala
145 150 155 160
Ala Ser Ile Lys Ile Arg Thr Asp Ala Gly Phe Thr Leu Arg Trp Val
165 170 175
Arg Lys Thr Pro Trp Tyr Gln
180

<210> 522
<211> 80
<212> PRT
<213> Homo sapiens

<400> 522
Asn His Leu Thr Ile Lys Trp Thr Thr Glu Asn Ser Pro Ser Cys Leu

462

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      1             5             10             15
Lys Ala Ser Pro Thr Val Val Ile Leu Gln Ala Ala Thr Cys Asn Leu
      20             25             30
Asp Val Val Ser Thr Cys Ser Ala Gly Tyr Asp Ser Cys Ile Leu Gly
      35             40             45
Leu Ala Phe Phe Cys Val Ile Asn Tyr Gly Tyr Pro Leu Asn Arg His
      50             55             60
Leu Met Lys His Cys Thr Asn Cys His Ser Phe Asp Asp Thr Trp Glu
      65             70             75             80

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<210> 523
 <211> 41
 <212> PRT
 <213> Homo sapiens

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<400> 523
Pro Asn Gln Trp Leu Cys Ser Thr Gln Cys Pro Ser Gly Glu Thr Glu
  1             5             10             15
Gly Gln Arg Gly Glu Gly Thr Cys Pro Arg Ser His Gly Asp Gly Thr
      20             25             30
Pro Arg Ala Gly Pro Leu Val Arg Ala
      35             40

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<210> 524
 <211> 374
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (76)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (77)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 524

Glu	Gly	Gln	Ser	Ser	Ala	Leu	Ala	Gly	Gln	Gly	Ala	Ala	Gln	Arg	Ala	1	5	10	15
Gly	Asp	Pro	Gly	Ala	Ala	Arg	Ala	Arg	Pro	Arg	Leu	Arg	Ser	Gly	Ser	20	25	30	
Gln	Arg	Gln	Pro	Gly	Ala	His	Gly	Pro	Ser	Ala	His	Gly	Ser	Thr	Met	35	40	45	
Pro	Ala	Leu	Leu	Glu	Arg	Pro	Lys	Leu	Ser	Asn	Ala	Met	Ala	Arg	Ala	50	55	60	
Leu	His	Arg	His	Ile	Met	Met	Glu	Arg	Glu	Arg	Xaa	Xaa	Xaa	Glu	Glu	65	70	75	80
Glu	Glu	Val	Asp	Lys	Met	Met	Glu	Gln	Lys	Met	Lys	Glu	Glu	Gln	Glu	85	90	95	
Arg	Arg	Lys	Lys	Lys	Glu	Met	Glu	Glu	Arg	Met	Ser	Leu	Glu	Glu	Thr	100	105	110	
Lys	Glu	Gln	Ile	Leu	Lys	Leu	Glu	Glu	Lys	Leu	Leu	Ala	Leu	Gln	Glu	115	120	125	
Glu	Lys	His	Gln	Leu	Phe	Leu	Gln	Leu	Lys	Lys	Val	Leu	His	Glu	Glu	130	135	140	
Glu	Lys	Arg	Arg	Arg	Lys	Glu	Gln	Ser	Asp	Leu	Thr	Thr	Leu	Thr	Ser	145	150	155	160
Ala	Ala	Tyr	Gln	Gln	Ser	Leu	Thr	Val	His	Thr	Gly	Thr	His	Leu	Leu	165	170	175	
Ser	Met	Gln	Gly	Ser	Pro	Gly	Gly	His	Asn	Arg	Pro	Gly	Thr	Leu	Met	180	185	190	
Ala	Ala	Asp	Arg	Ala	Lys	Gln	Met	Phe	Gly	Pro	Gln	Val	Leu	Thr	Thr	195	200	205	
Arg	His	Tyr	Val	Gly	Ser	Ala	Ala	Ala	Phe	Ala	Gly	Thr	Pro	Glu	His	210	215	220	
Gly	Gln	Phe	Gln	Gly	Ser	Pro	Gly	Gly	Ala	Tyr	Gly	Thr	Ala	Gln	Pro	225	230	235	240

Pro Pro His Tyr Gly Pro Thr Gln Pro Ala Tyr Ser Pro Ser Gln Gln
 245 250 255
 Leu Arg Ala Pro Ser Ala Phe Pro Ala Val Gln Tyr Leu Ser Gln Pro
 260 265 270
 Gln Pro Gln Pro Tyr Ala Val His Gly His Phe Gln Pro Thr Gln Thr
 275 280 285
 Gly Phe Leu Gln Pro Gly Gly Ala Leu Ser Leu Gln Lys Gln Met Glu
 290 295 300
 His Ala Asn Gln Gln Thr Gly Phe Ser Asp Ser Ser Ser Leu Arg Pro
 305 310 315 320
 Met His Pro Gln Ala Leu His Pro Ala Pro Gly Leu Leu Ala Ser Pro
 325 330 335
 Gln Leu Pro Val Gln Met Gln Pro Ala Gly Lys Ser Gly Phe Ala Ala
 340 345 350
 Thr Ser Gln Pro Gly Pro Arg Leu Pro Phe Ile Gln His Ser Gln Asn
 355 360 365
 Pro Arg Phe Tyr His Lys
 370

<210> 525
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 525
 Gly Ser His Cys Tyr Tyr Phe Asn Glu Glu His Glu Thr Trp Val Tyr
 1 5 10 15
 Ala Asp Leu Tyr Cys Gln Asn Met Asn Ser Gly Asn Leu Val Ser Val
 20 25 30
 Leu Thr Gln Ala Glu Gly Ala Phe Val Ala Ser Leu Ile Lys Glu Ser
 35 40 45
 Gly Thr Lys Asp Ser Asn Val Trp Ile Gly Leu His Asp Pro His Arg
 50 55 60
 Ile Ser Leu Leu His Leu Leu Pro Pro Asp Tyr Gln Val Pro Glu Gly
 65 70 75 80
 Leu Met Ser Gly Thr Ser Ser Ile Ser Phe Tyr Tyr Ile Met Ile Lys

465

85 90 95

Ala Thr Ser Leu
100

<210> 526
<211> 104
<212> PRT
<213> Homo sapiens

<400> 526
Arg Leu His Thr Met Asp Ser Phe Ser Gln Asp Val Lys Thr Arg Leu
1 5 10 15
Leu Ile Met Ile Arg Leu Leu Pro Pro Phe Asn Leu Ser Leu Leu Met
20 25 30
Pro Ala Ser Phe Ala Trp Gln Asp Asp Ala Val Ile Ser Ile Ser Gln
35 40 45
Glu Val Ala Ser Glu Gly Asn Leu Thr Glu Tyr Gln Ile Tyr Leu Val
50 55 60
Asn Pro Asn Val Leu His Lys Ile Arg Asp Pro Leu Val His Pro Val
65 70 75 80
Thr Asp Ile Ser Ser Ile Phe Asn Thr Ala Val Cys Ser Asn Val Gln
85 90 95
Trp Ser Phe Ser Glu Leu Asp Phe
100

<210> 527
<211> 123
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 527

Phe	Pro	Ser	Ile	Ser	Arg	Ala	Val	Asp	Asp	Glu	Ile	Glu	Ala	Asn	Leu
1				5				10						15	

Glu	Glu	Phe	Asp	Ile	Ser	Glu	Asp	Asp	Ile	Asp	Asp	Gly	Phe	Arg	Arg
			20					25					30		

Leu	Phe	Ala	Gln	Leu	Ala	Gly	Glu	Asp	Ala	Glu	Ile	Ser	Ala	Phe	Xaa
		35					40					45			

Leu	Gln	Thr	Ile	Leu	Arg	Arg	Val	Leu	Ala	Lys	Arg	Gln	Asp	Ile	Xaa
	50					55					60				

Ser	Asp	Gly	Phe	Ser	Ile	Glu	Thr	Cys	Lys	Ile	Met	Val	Asp	Met	Leu
65					70					75				80	

Xaa	Ser	Asp	Gly	Ser	Gly	Lys	Leu	Gly	Leu	Lys	Glu	Phe	Tyr	Ile	Leu
			85					90						95	

Trp	Thr	Xaa	Ile	Gln	Lys	Tyr	Gln	Val	Xaa	Ser	Xaa	Lys	Cys	Gly	Trp
			100					105						110	

Ile	Cys	Val	Gly	Lys	His	Ser	Val	His	Met	Leu
		115						120		

<210> 528

<211> 428

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (258)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 528

Gly Arg Met Gly Thr Pro Xaa Lys Pro Met Ala Met Arg Leu Ile Leu

1

5

10

15

Phe Phe Gly Ala Leu Phe Gly His Ile Tyr Cys Leu Glu Thr Phe Val

20

25

30

Gly Asp Gln Val Leu Glu Ile Val Pro Ser Asn Glu Glu Gln Ile Lys

35

40

45

Asn Leu Leu Gln Leu Glu Ala Gln Glu His Leu Gln Leu Asp Phe Trp

50

55

60

Lys Ser Pro Thr Thr Pro Gly Glu Thr Ala His Val Arg Val Pro Phe

65

70

75

80

Val Asn Val Gln Ala Val Lys Val Phe Leu Glu Ser Gln Gly Ile Ala

85

90

95

Tyr Ser Ile Met Ile Glu Asp Val Gln Val Leu Leu Asp Lys Glu Asn

100

105

110

Glu Glu Met Leu Xaa Asn Arg Arg Arg Glu Arg Xaa Val Asn Phe Asn

115

120

125

Phe Gly Ala Tyr His Thr Leu Glu Glu Ile Ser Gln Glu Met Asp Asn

130

135

140

Leu Val Ala Glu His Pro Gly Leu Val Ser Lys Val Asn Ile Gly Ser

145

150

155

160

Ser Phe Glu Asn Arg Pro Met Asn Val Leu Lys Phe Ser Thr Gly Gly
 165 170 175
 Asp Lys Pro Ala Ile Trp Leu Asp Ala Gly Ile His Ala Arg Glu Trp
 180 185 190
 Val Thr Gln Ala Thr Ala Leu Trp Thr Ala Asn Lys Ile Val Ser Asp
 195 200 205
 Tyr Gly Lys Asp Pro Ser Ile Thr Ser Ile Leu Asp Ala Leu Asp Ile
 210 215 220
 Phe Leu Leu Pro Val Thr Asn Pro Asp Gly Tyr Val Phe Ser Gln Thr
 225 230 235 240
 Lys Asn Arg Met Trp Arg Lys Thr Arg Ser Lys Val Ser Gly Ser Leu
 245 250 255
 Cys Xaa Gly Val Asp Pro Asn Arg Asn Trp Asp Ala Gly Phe Gly Gly
 260 265 270
 Pro Gly Ala Ser Ser Asn Pro Cys Ser Asp Ser Tyr His Gly Pro Ser
 275 280 285
 Ala Asn Ser Glu Val Glu Val Lys Ser Ile Val Asp Phe Ile Lys Ser
 290 295 300
 His Gly Lys Val Lys Ala Phe Ile Thr Leu His Ser Tyr Ser Gln Leu
 305 310 315 320
 Leu Met Phe Pro Tyr Gly Tyr Lys Cys Thr Lys Leu Asp Asp Phe Asp
 325 330 335
 Glu Leu Ser Glu Val Ala Gln Lys Ala Ala Gln Ser Leu Arg Ser Leu
 340 345 350
 His Gly Thr Lys Tyr Lys Val Gly Pro Ile Cys Ser Val Ile Tyr Gln
 355 360 365
 Ala Ser Gly Gly Ser Ile Asp Trp Ser Tyr Asp Tyr Gly Ile Lys Tyr
 370 375 380
 Ser Phe Ala Phe Glu Leu Arg Asp Thr Gly Arg Tyr Gly Phe Leu Leu
 385 390 395 400
 Pro Ala Arg Gln Ile Leu Pro Thr Ala Glu Glu Thr Trp Leu Gly Leu
 405 410 415
 Lys Ala Ile Met Glu His Val Arg Asp His Pro Tyr
 420 425

<210> 529

<211> 192

<212> PRT

<213> Homo sapiens

<400> 529

Ser Leu Thr Leu Ser Leu Val Leu Leu Gly Ser Ser Trp Gly Cys Gly
 1 5 10 15

Ile Pro Ala Ile Lys Pro Ala Leu Ser Phe Ser Gln Arg Ile Val Asn
 20 25 30

Gly Glu Asn Ala Val Leu Gly Ser Trp Pro Trp Gln Val Ser Leu Gln
 35 40 45

Asp Ser Ser Gly Phe His Phe Cys Gly Gly Ser Leu Ile Ser Gln Ser
 50 55 60

Trp Val Val Thr Ala Ala His Cys Asn Val Ser Pro Gly Arg His Phe
 65 70 75 80

Val Val Leu Gly Glu Tyr Asp Arg Ser Ser Asn Ala Glu Pro Leu Gln
 85 90 95

Val Leu Ser Val Ser Arg Ala Ile Thr His Pro Ser Trp Asn Ser Thr
 100 105 110

Thr Met Asn Asn Asp Val Thr Leu Leu Lys Leu Ala Ser Pro Ala Gln
 115 120 125

Tyr Thr Thr Arg Ile Ser Pro Val Cys Leu Ala Ser Ser Asn Glu Ala
 130 135 140

Leu Thr Glu Gly Leu Thr Cys Val Thr Thr Gly Trp Gly Arg Leu Ser
 145 150 155 160

Gly Val Gly Asn Val Thr Pro Ala His Leu Gln Gln Val Ala Leu Pro
 165 170 175

Leu Val Thr Val Asn Gln Cys Arg Gln Tyr Trp Gly Ser Ser Tyr His
 180 185 190

<210> 530

<211> 321

<212> PRT

<213> Homo sapiens

<400> 530

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Gly Gln Ser Thr Ala Ser Pro Ala Phe Ser Ala Ala Pro Gln Pro Arg
 1             5             10             15

Ala Leu Ser Phe Pro Ala Leu Pro Cys Leu Ala Phe Gln Cys Ser Ser
          20             25             30

Phe Cys Glu Met Thr Leu Lys Ala Ser Glu Gly Glu Ser Gly Gly Ser
          35             40             45

Met His Thr Ala Leu Ser Asp Leu Tyr Leu Glu His Leu Leu Gln Lys
          50             55             60

Arg Ser Arg Pro Glu Ala Val Ser His Pro Leu Asn Thr Val Thr Glu
          65             70             75             80

Asp Met Tyr Thr Asn Gly Ser Pro Ala Pro Gly Ser Pro Ala Gln Val
          85             90             95

Lys Gly Gln Glu Val Arg Lys Val Arg Leu Ile Gln Phe Glu Lys Val
          100            105            110

Thr Glu Glu Pro Met Gly Ile Thr Leu Lys Leu Asn Glu Lys Gln Ser
          115            120            125

Cys Thr Val Ala Arg Ile Leu His Gly Gly Met Ile His Arg Gln Gly
          130            135            140

Ser Leu His Val Gly Asp Glu Ile Leu Glu Ile Asn Gly Thr Asn Val
          145            150            155            160

Thr Asn His Ser Val Asp Gln Leu Gln Lys Ala Met Lys Glu Thr Lys
          165            170            175

Gly Met Ile Ser Leu Lys Val Ile Pro Asn Gln Gln Ser Arg Leu Pro
          180            185            190

Ala Leu Gln Met Phe Met Arg Ala Gln Phe Asp Tyr Asp Pro Lys Lys
          195            200            205

Asp Asn Leu Ile Pro Cys Lys Glu Ala Gly Leu Lys Phe Ala Thr Gly
          210            215            220

Asp Ile Ile Gln Ile Ile Asn Lys Asp Asp Ser Asn Trp Trp Gln Gly
          225            230            235            240

Arg Val Glu Gly Ser Ser Lys Glu Ser Ala Gly Leu Ile Pro Ser Pro

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	245		250		255										
Glu	Leu	Gln	Glu	Trp	Arg	Val	Ala	Ser	Met	Ala	Gln	Ser	Ala	Pro	Ser
		260						265					270		
Glu	Ala	Arg	Ala	Ala	Val	Pro	Leu	Gly	Arg	Arg	Arg	Ser	Thr	Lys	Thr
		275					280					285			
Asn	Ile	Trp	Pro	Ser	Thr	Ala	Arg	Phe	Leu	Ile	Ser	Trp	Met	Leu	Phe
	290					295					300				
Pro	Thr	Arg	Lys	Ser	Phe	Gly	Ser	Leu	His	Ser	Arg	Gly	Arg	Pro	Trp
305					310					315				320	

Cys

<210> 531

<211> 390

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 531

Gln	Arg	Xaa	Ser	Gly	Thr	Phe	Thr	Met	Gly	Arg	Lys	Ser	Leu	Tyr	Leu
1				5					10				15		

Leu	Ile	Val	Gly	Ile	Leu	Ile	Ala	Tyr	Tyr	Ile	Tyr	Thr	Pro	Leu	Pro
		20					25						30		

Asp	Asn	Val	Glu	Glu	Pro	Trp	Arg	Met	Met	Trp	Ile	Asn	Ala	His	Leu
	35						40					45			

Lys	Thr	Ile	Gln	Asn	Leu	Val	Val	Gly	Ser	Phe	Asp	Glu	Val	Pro	Pro
	50					55					60				

Thr	Ser	Asp	Glu	Asn	Val	Thr	Val	Thr	Glu	Thr	Lys	Phe	Asn	Asn	Ile
65					70					75					80

Leu	Val	Arg	Xaa	Tyr	Val	Pro	Lys	Arg	Lys	Ser	Glu	Ala	Leu	Arg	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

	85		90		95
Gly Leu Phe Tyr Ile His Gly Gly Gly Trp Cys Val Gly Ser Ala Ala	100		105		110
Leu Ser Gly Tyr Asp Leu Leu Ser Arg Trp Thr Ala Asp Arg Leu Asp	115		120		125
Ala Val Val Val Ser Thr Asn Tyr Arg Leu Ala Pro Lys Tyr His Phe	130		135		140
Pro Ile Gln Phe Glu Asp Val Tyr Asn Ala Leu Arg Trp Phe Leu Arg	145		150		155
Lys Lys Val Leu Ala Lys Tyr Gly Val Asn Pro Glu Arg Ile Gly Ile	165		170		175
Ser Gly Asp Ser Ala Gly Gly Asn Leu Ala Ala Ala Val Thr Gln Gln	180		185		190
Leu Leu Asp Asp Pro Asp Val Lys Ile Lys Leu Lys Ile Gln Ser Leu	195		200		205
Ile Tyr Pro Ala Leu Gln Pro Leu Asp Val Asp Leu Pro Ser Tyr Gln	210		215		220
Glu Asn Ser Asn Phe Leu Phe Leu Ser Lys Ser Leu Met Val Arg Phe	225		230		235
Trp Ser Glu Tyr Phe Thr Thr Asp Arg Ser Leu Glu Lys Ala Met Leu	245		250		255
Ser Arg Gln His Val Pro Val Glu Ser Ser His Leu Phe Lys Phe Ile	260		265		270
Asn Trp Ser Ser Leu Leu Pro Glu Arg Phe Ile Lys Gly His Val Tyr	275		280		285
Asn Asn Pro Asn Tyr Gly Ser Ser Glu Leu Ala Lys Lys Tyr Pro Gly	290		295		300
Phe Leu Asp Val Arg Ala Ala Pro Leu Leu Ala Asp Asp Asn Lys Leu	305		310		315
Arg Gly Leu Pro Leu Thr Tyr Val Ile Thr Cys Gln Tyr Asp Leu Leu	325		330		335
Arg Asp Asp Gly Leu Met Tyr Val Thr Arg Leu Arg Asn Thr Gly Val	340		345		350
Gln Val Thr His Asn His Val Glu Asp Gly Phe His Gly Ala Phe Ser					

355 360 365
 Phe Leu Gly Leu Lys Ile Ser His Arg Leu Ile Asn Gln Tyr Ile Glu
 370 375 380
 Trp Leu Lys Glu Asn Leu
 385 390

<210> 532
 <211> 261
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (8)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (242)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (245)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (256)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (260)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 532
 Gly Val Gly Tyr Asn Thr Val Xaa Ser Pro Pro Ala Pro Ser Phe Cys
 1 5 10 15

Asn Met Gly Lys Asn Lys Leu Leu His Pro Ser Leu Val Leu Leu Leu
 20 25 30

Leu Val Leu Leu Pro Thr Asp Ala Ser Val Ser Gly Lys Pro Gln Tyr
 35 40 45

Met Val Leu Val Pro Ser Leu Leu His Thr Glu Thr Thr Glu Lys Gly

50		55		60
Cys Val Leu Leu Ser Tyr Leu Asn Glu Thr Val Thr Val Ser Ala Ser				
65		70		75 80
Leu Glu Ser Val Arg Gly Asn Arg Ser Leu Phe Thr Asp Leu Glu Ala				
	85		90	95
Glu Asn Asp Val Leu His Cys Val Ala Phe Ala Val Pro Lys Ser Ser				
	100		105	110
Ser Asn Glu Glu Val Met Phe Leu Thr Val Gln Val Lys Gly Pro Thr				
	115		120	125
Gln Glu Phe Lys Lys Arg Thr Thr Val Met Val Lys Asn Glu Asp Ser				
	130		135	140
Leu Val Phe Val Gln Thr Asp Lys Ser Ile Tyr Lys Pro Gly Gln Thr				
	145		150	155 160
Val Lys Phe Arg Val Val Ser Met Asp Glu Asn Phe His Pro Leu Asn				
	165		170	175
Glu Leu Ile Pro Leu Val Tyr Ile Gln Asp Pro Lys Gly Asn Arg Ile				
	180		185	190
Ala Gln Trp Gln Ser Phe Gln Leu Glu Gly Gly Leu Lys Gln Phe Ser				
	195		200	205
Phe Pro Leu Ser Ser Glu Pro Phe Gln Gly Ser Leu Gln Gly Gly Gly				
	210		215	220
Thr Glu Glu Ile Arg Trp Glu Gly Thr Glu His Pro Phe His Arg Gly				
	225		230	235 240
Arg Xaa Cys Cys Xaa Pro Lys Phe Gly Ser Tyr Lys Leu Thr Val Xaa				
	245		250	255
Lys Gly Asn Xaa His				
	260			

<210> 533

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 533

Asn Arg Ser Val Gln Ser Tyr Phe Phe Leu Thr Leu Asn Phe Pro Ser
1 5 10 15

Arg Glu Tyr Thr Ile Trp Leu Xaa Gly Arg Gly Ser Pro Glu Glu Xaa
20 25 30

Gly Phe Ala Leu Arg Gly Arg Ala Ser Leu Asp Phe Ala Ala Ser Asn
35 40 45

Phe Ser Arg Gly Val Glu Gly Gly Ala Leu Gly Gly Pro His Ser Leu
50 55 60

Ser Gly Val Pro Ala Arg Val Ser Phe
65 70

<210> 534

<211> 150

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 534

Xaa Arg Lys Gln Gln Arg Arg Leu Tyr Pro Val Ser Pro Pro Pro Ser
1 5 10 15

Leu Leu Arg Leu Pro Ser Arg Ala Pro Tyr Thr Pro Gln Ser Arg Ser
20 25 30

Arg His Val Pro Glu Thr Arg Arg Arg Glu Pro Cys Gly Gly Asp Arg
35 40 45

Arg Gly Glu Ala Gly His Ala Glu Lys Glu Gly Ile Leu Pro Glu Arg
50 55 60

Ala Glu Glu Ala Lys Leu Lys Ala Lys Tyr Pro Ser Leu Gly Gln Lys
65 70 75 80

Pro Gly Gly Ser Asp Phe Leu Met Lys Arg Leu Gln Lys Gly Gln Lys
 85 90 95

Tyr Phe Asp Ser Gly Asp Tyr Asn Met Ala Lys Ala Lys Met Lys Asn
 100 105 110

Lys Gln Leu Pro Ser Ala Gly Pro Asp Lys Asn Leu Val Thr Gly Asp
 115 120 125

His Ile Pro Thr Pro Gln Asp Leu Pro Gln Arg Lys Ser Ser Leu Val
 130 135 140

Thr Ser Lys Leu Ala Gly
 145 150

<210> 535

<211> 67

<212> PRT

<213> Homo sapiens

<400> 535

Gln Ile Val Lys Ile Glu Ala Ile Ala Gln His Arg Phe Ser Ile Asn
 1 5 10 15

Ala Val Asn Leu Pro Tyr Leu Arg Lys Asn Ser Leu Thr Leu Glu Tyr
 20 25 30

Cys Ile Glu Leu Ser Tyr Thr His Lys Thr Phe Ser Leu Val Asn Gln
 35 40 45

Asp Pro Val Arg Val Ser Leu Glu Leu Phe Trp Asn Asn Ala Arg Ile
 50 55 60

Gln Thr Asp
 65

<210> 536

<211> 107

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE
 <222> (80)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (85)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (103)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 536
 His Ala Ser Gly Arg Pro Pro Arg Cys Trp Arg Pro Ala Trp Arg Gly
 1 5 10 15

 Cys Ser Ser Thr Arg Arg Cys Ser Thr Pro Cys Ser Ala Gly Arg Cys
 20 25 30

 Arg Val Gly Arg Thr Gly Thr Gly Thr Thr Ala Ser Thr Pro Pro Cys
 35 40 45

 Cys Trp Ala Arg Cys Arg Cys Gly Xaa Asp Ala Pro Leu Val Gln Asp
 50 55 60

 Glu Asn Val Arg Gly Val Ile Thr Met Asn Glu Glu Tyr Glu Thr Xaa
 65 70 75 80

 Phe Leu Cys Asn Xaa Ser Gln Val His Lys Trp Asn Pro Glu Glu Ala
 85 90 95

 Val Arg Pro Ser Pro Arg Xaa Gly His Thr Ser
 100 105

<210> 537
 <211> 49
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (39)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 537
 Asn Gln Ile Asn Phe Cys Leu Asn Gly Lys Tyr Thr Tyr Ile Cys Ile
 1 5 10 15

478

Asp Thr Leu Pro Leu Tyr Met Phe Asn Ile His Thr Leu Lys His Ile
 20 25 30

Asn Thr Ser Val Ile Ile Xaa Trp Ser Leu Gln Tyr Ser Ile Lys Asp
 35 40 45

Lys

<210> 538

<211> 149

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 538

Ala Gln Ala Arg Val Pro Ala Thr Thr Ala Ser Pro Gly Gly Pro Ala
 1 5 10 15

Ile Phe Pro Pro Gln Thr Ser Pro Gln Gly Pro Glu Trp Lys Arg Pro
 20 25 30

Ser Asp Pro Pro Phe Gln Pro Ser Pro Pro Ser Gln Lys Leu Thr Gly
 35 40 45

Pro Ala Pro Thr Ser Ser Thr Ala Gly His Pro Pro Pro Xaa Ala Pro
 50 55 60

Leu Pro Thr Pro Arg Gly Thr Arg Arg Thr Ala Cys Pro Pro Ser Ala
 65 70 75 80

Leu Pro Ala Ala Pro Thr Pro Pro Ser Leu Ser Ala Pro Cys Thr Gln
 85 90 95

Ser Pro Ala Cys Leu Cys Ala Pro His Ser His Cys Pro Arg Arg Arg
100 105 110

Arg Ser Arg Ser His Trp Cys Leu Arg Xaa Ala Leu Gly Glu Ala Val
115 120 125

Leu Ser Ala Leu Leu Gln Arg Leu Gln Arg Pro Arg Asp His His Val
130 135 140

Xaa Ala His Val Leu
145

<210> 539

<211> 61

<212> PRT

<213> Homo sapiens

<400> 539

Glu Met Tyr Val Leu Leu Leu Ile Lys Gly Ile Val Glu Tyr Lys
1 5 10 15

Arg Phe Phe Lys Leu Val Leu Ser Leu Ile Gly Phe Tyr Asn Pro His
20 25 30

Phe Lys Glu Glu Met His Leu Thr Phe Asn Asn Leu Val Lys Lys Tyr
35 40 45

Asn Val Ala Leu Pro Cys Ile Thr Phe Asn Tyr Cys Lys
50 55 60

<210> 540

<211> 148

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 540

Gly Gly Gly Ala Gly Leu Gln Gly Leu Pro Gly Ala Arg Gly Gly Leu
1 5 10 15

Gly Pro Gly Ser Arg Ala Ala Ser Ser Leu Leu Gly Arg Ala Ala Thr
20 25 30

480

Gly Glu Val Leu Gly Ala Gly Gly Ser Pro Arg Ala Gly Val Thr Pro
 35 40 45
 Thr Phe Thr Ala Pro Lys Asn Thr Ser Arg Val Gly Gly Gly Gly His
 50 55 60
 Arg Ala Thr Ser Arg Ser Gly Phe Cys Pro Ser Ser Leu Phe Thr Arg
 65 70 75 80
 Arg Asn Phe Arg Pro Asp Val Phe Ser Gln Asn Arg Asn Thr Ser Gln
 85 90 95
 Gly Gln Thr Asp Arg Lys Arg Gly Cys Leu Ala Val Ala Pro His Xaa
 100 105 110
 Pro Thr Gly Phe Arg Ala Pro Glu Leu Ala Ala Ala Pro Ser Leu Glu
 115 120 125
 Gln Ser Phe Met Gln Arg Gly Cys Phe Leu Lys Leu Ser Val His Gly
 130 135 140
 Asp Phe Phe Phe
 145

<210> 541

<211> 30

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 541

Phe Tyr Phe Thr Ser Ile Leu Gln Val Glu Leu Xaa Gly Arg Val Val
 1 5 10 15

Ser Asn Pro Lys Leu Val Ile Pro Val Pro Arg Gly His His
 20 25 30

<210> 542

<211> 241

<212> PRT

<213> Homo sapiens

<400> 542

481

Glu Leu Leu Ala Leu Asp Gln Leu His Gly Ser Arg Arg Gln Leu Gln
 1 5 10 15
 Trp Leu Val Gly Glu Leu Gln Ala Ala Glu Asp Arg Gly Asp Lys Val
 20 25 30
 His Ile Ile Gly His Ile Pro Pro Gly His Cys Leu Lys Ser Trp Ser
 35 40 45
 Trp Asn Tyr Tyr Arg Ile Val Ala Arg Tyr Glu Asn Thr Leu Ala Ala
 50 55 60
 Gln Phe Phe Gly His Thr His Val Asp Glu Phe Glu Val Phe Tyr Asp
 65 70 75 80
 Glu Glu Thr Leu Ser Arg Pro Leu Ala Val Ala Phe Leu Ala Pro Ser
 85 90 95
 Ala Thr Thr Tyr Ile Gly Leu Asn Pro Gly Tyr Arg Val Tyr Gln Ile
 100 105 110
 Asp Gly Asn Tyr Ser Gly Ser Ser His Val Val Leu Asp His Glu Thr
 115 120 125
 Tyr Ile Leu Asn Leu Thr Gln Ala Asn Ile Pro Gly Ala Ile Pro His
 130 135 140
 Trp Gln Leu Leu Tyr Arg Ala Arg Glu Thr Tyr Gly Leu Pro Asn Thr
 145 150 155 160
 Leu Pro Thr Ala Trp His Asn Leu Val Tyr Arg Met Arg Gly Asp Met
 165 170 175
 Gln Leu Phe Gln Thr Phe Trp Phe Leu Tyr His Lys Gly His Pro Pro
 180 185 190
 Ser Glu Pro Cys Gly Thr Pro Cys Arg Leu Ala Thr Leu Cys Ala Gln
 195 200 205
 Leu Ser Ala Arg Ala Asp Ser Pro Ala Leu Cys Arg His Leu Met Pro
 210 215 220
 Asp Gly Ser Leu Pro Glu Ala Gln Ser Leu Trp Pro Arg Pro Leu Phe
 225 230 235 240
 Cys

<210> 543

482

<211> 89

<212> PRT

<213> Homo sapiens

<400> 543

Arg Asn Arg Lys Asn Thr Asp Gly His Gln Gln Phe Phe Ala Ile Val
1 5 10 15

Gln Leu Ile Gly Thr Arg Lys Gln Ala Glu Asn Phe Ala Tyr Arg Leu
20 25 30

Glu Leu Asn Gly His Arg Arg Arg Leu Thr Trp Glu Ala Thr Pro Arg
35 40 45

Ser Ile His Glu Gly Ile Ala Thr Ala Ile Met Asn Ser Asp Cys Leu
50 55 60

Val Phe Asp Thr Ser Ile Ala Gln Leu Phe Ala Glu Asn Gly Asn Leu
65 70 75 80

Gly Ile Asn Val Thr Ile Ser Met Cys
85

<210> 544

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 544

Gly Ile Gln Ala Ala Pro Gly Arg Gly Arg Leu Arg Leu Tyr Pro Gly
1 5 10 15

Pro Arg Ser Pro Arg Asp Arg Gln Met Arg Ala Ala Gly Pro Gly His
20 25 30

Met Ser Ser Ala Thr Asp Ala Thr Xaa Pro Ala Leu Asp Met Pro Asp
35 40 45

Arg Val Ser Thr Arg Pro Trp Asp Trp Ser Pro Asp Ser Ala Cys Pro

50 55 60
 Xaa Leu Cys Phe Thr Pro Leu Val Ala Lys
 65 70

 <210> 545
 <211> 271
 <212> PRT
 <213> Homo sapiens

 <400> 545
 Arg Ser Ser Gln Lys Lys Ser Leu Met Ser Gly Tyr Arg Asn Phe Ala
 1 5 10 15

 Thr Thr Glu Cys Ile Val Arg Met Lys Leu Pro Cys Phe His Met Lys
 20 25 30

 Leu Thr Thr Phe Ser Gln Gly Pro Pro Ser Gln Thr Leu His Leu Gly
 35 40 45

 Cys Leu Thr Pro Phe Gln Val Gly Ser Val Gln Leu Tyr Gln Ser Arg
 50 55 60

 Ile Tyr Phe Lys Leu Gly Ser Asn Val Ser Phe Ser Cys Gly Gly Glu
 65 70 75 80

 Thr Arg Val Pro Leu Trp Leu Gln Ser Phe Arg Gly His Gly Lys Met
 85 90 95

 Leu Gln Arg Pro Gly Ala Leu Ser Cys Leu Pro Gly Arg Asn Glu Pro
 100 105 110

 Ala Pro Ala Lys His Gly Thr Ser Cys Ile Gly His Thr Arg Ala Pro
 115 120 125

 Ala Ile Asn Ala Ile Gln Val Pro Lys Pro Phe Ser Gly Pro Val Arg
 130 135 140

 Leu His Ser Ser Asn Pro Asn Leu Ser Thr Leu Asp Phe Gly Glu Glu
 145 150 155 160

 Lys Asn Tyr Ser Asp Gly Ser Glu Thr Ser Ser Glu Phe Ser Lys Met
 165 170 175

 Gln Glu Asp Leu Cys His Ile Ala His Lys Val Tyr Phe Thr Leu Arg
 180 185 190

 Ser Ala Phe Asn Ile Met Ser Ala Glu Arg Glu Lys Leu Lys Gln Leu
 195 200 205

Met Glu Gln Asp Ala Ser Ser Ser Pro Ser Ala Gln Val Ile Gly Leu
 210 215 220

Lys Asn Ala Leu Ser Ser Ala Leu Ala Gln Asn Thr Asp Leu Lys Glu
 225 230 235 240

Arg Leu Arg Arg Ile His Ala Glu Ser Leu Leu Leu Asp Ser Pro Ala
 245 250 255

Val Ala Lys Ser Gly Asp Asn Leu Gly Arg Gly Lys Leu Gln Arg
 260 265 270

<210> 546

<211> 301

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (215)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (292)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 546

Asp Pro Arg Val Arg Glu Asn Ala Arg Leu Phe His Pro Lys Leu Ile
 1 5 10 15

Ile Ala Gly Thr Ser Cys Tyr Ser Arg Asn Leu Glu Tyr Ala Arg Leu
 20 25 30

Arg Lys Ile Ala Asp Glu Asn Gly Ala Tyr Leu Met Ala Asp Met Ala
 35 40 45

His Ile Ser Gly Leu Val Ala Ala Gly Val Val Pro Ser Pro Phe Glu
 50 55 60

His Cys His Val Val Thr Thr Thr Thr His Lys Thr Leu Arg Gly Cys
 65 70 75 80

Arg Ala Gly Met Ile Phe Tyr Arg Lys Gly Val Lys Ser Val Asp Pro
 85 90 95

Lys Thr Gly Lys Glu Ile Leu Tyr Asn Leu Glu Ser Leu Ile Asn Ser
 100 105 110

Ala Val Phe Pro Gly Leu Gln Gly Gly Pro His Asn His Ala Ile Ala
115 120 125

Gly Val Ala Val Ala Leu Lys Gln Ala Met Thr Leu Glu Phe Lys Val
130 135 140

Tyr Gln His Gln Val Val Ala Asn Cys Arg Ala Leu Ser Glu Ala Leu
145 150 155 160

Thr Glu Leu Gly Tyr Lys Ile Val Thr Gly Gly Ser Asp Asn His Leu
165 170 175

Ile Leu Val Asp Leu Arg Ser Lys Gly Thr Asp Gly Gly Arg Ala Glu
180 185 190

Lys Val Leu Glu Ala Cys Ser Ile Ala Cys Asn Lys Asn Thr Cys Pro
195 200 205

Gly Asp Arg Ser Ala Leu Xaa Pro Ser Gly Leu Arg Leu Gly Thr Pro
210 215 220

Ala Leu Thr Ser Arg Gly Leu Leu Glu Lys Asp Phe Gln Lys Val Ala
225 230 235 240

His Phe Ile His Arg Gly Ile Glu Leu Thr Leu Gln Ile Gln Ser Asp
245 250 255

Thr Gly Val Arg Ala Thr Leu Lys Glu Phe Lys Glu Arg Leu Ala Gly
260 265 270

Asp Lys Tyr Gln Ala Ala Val Gln Ala Leu Arg Glu Glu Val Glu Ser
275 280 285

Phe Ala Ser Xaa Phe Pro Leu Pro Gly Leu Pro Asp Phe
290 295 300

<210> 547

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 547

Glu	Thr	Ser	Arg	Thr	Ser	Gly	Ser	Cys	Ser	Trp	Arg	Ala	Gly	Ala	Pro
1				5					10					15	

Ala	Pro	Leu	Leu	Pro	Thr	His	His	Ile	Leu	Pro	Ile	Leu	Leu	Gln	Gly
		20						25					30		

Pro	Arg	Leu	Leu	Ser	Asn	Ser	Trp	Asp	Xaa	Arg	Pro	Trp	Arg	Xaa	Xaa
		35					40					45			

Pro	Leu	Leu	Gly	Ser	Ala	Xaa	Arg	Pro	Pro	Thr	Leu	Leu
	50					55					60	

<210> 548

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 548

Ala	Gln	Gly	Phe	Arg	His	Glu	Xaa	Xaa	Leu	Leu	Val	Gly	Gly	Leu	Leu
1					5				10					15	

Ala Xaa Asp Gly Asp Cys Pro Gly Val Val Thr Met Phe Leu Ser Ala
 20 25 30

Val Phe Phe Ala Lys Ser Lys Ser Lys Asn Ile Leu Val Arg Met Val
 35 40 45

Ser Glu Ala Gly Thr Gly Phe Cys Phe Asn Thr Lys Arg Asn Arg Leu
 50 55 60

Arg Glu Lys Leu Thr Leu Leu His Tyr Asp Pro Val Val Lys Gln Arg
 65 70 75 80

Val Leu Phe Val Glu Lys Lys Lys Ile Arg Ser Leu
 85 90

<210> 549

<211> 393

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (195)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (252)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 549

Gly Arg Gly Phe Lys Lys Asn Leu Phe Glu Met Ala Ile Asn Leu Ala
 1 5 10 15

Lys Ser Gln His Leu Asp Ser Asp Gly Leu Ala Gln Ile Phe Met Gln
 20 25 30

Tyr Gly Asp His Leu Tyr Ser Lys Gly Asn His Asp Gly Ala Val Gln
 35 40 45

Gln Tyr Ile Arg Thr Ile Gly Lys Leu Glu Pro Ser Tyr Val Ile Arg
 50 55 60

Lys Phe Leu Asp Ala Gln Arg Ile His Asn Leu Thr Ala Tyr Leu Gln
 65 70 75 80

Thr Leu His Arg Gln Ser Leu Ala Asn Ala Asp His Thr Thr Leu Leu
 85 90 95

Leu Asn Cys Tyr Thr Lys Leu Lys Asp Ser Ser Lys Leu Glu Glu Phe
 100 105 110
 Ile Lys Lys Lys Ser Glu Ser Glu Val His Phe Asp Val Glu Thr Ala
 115 120 125
 Ile Lys Val Leu Arg Gln Ala Gly Tyr Tyr Ser His Ala Leu Tyr Leu
 130 135 140
 Ala Glu Asn His Ala His His Glu Trp Tyr Leu Lys Ile Gln Leu Glu
 145 150 155 160
 Asp Ile Lys Asn Tyr Gln Glu Ala Leu Arg Tyr Ile Gly Lys Leu Pro
 165 170 175
 Phe Glu Gln Ala Glu Ser Asn Met Lys Arg Tyr Gly Lys Ile Leu Met
 180 185 190
 His His Xaa Pro Glu Gln Thr Thr Gln Leu Leu Lys Gly Leu Cys Thr
 195 200 205
 Asp Tyr Arg Pro Ser Leu Glu Gly Arg Ser Asp Arg Glu Ala Pro Gly
 210 215 220
 Cys Arg Ala Asn Ser Glu Glu Phe Ile Pro Ile Phe Ala Asn Asn Pro
 225 230 235 240
 Arg Glu Leu Lys Ala Phe Leu Glu His Met Ser Xaa Val Gln Pro Asp
 245 250 255
 Ser Pro Gln Gly Ile Tyr Asp Thr Leu Leu Glu Leu Arg Leu Gln Asn
 260 265 270
 Trp Ala His Glu Lys Asp Pro Gln Val Lys Glu Lys Leu His Ala Glu
 275 280 285
 Ala Ile Ser Leu Leu Lys Ser Gly Arg Phe Cys Asp Val Phe Asp Lys
 290 295 300
 Ala Leu Val Leu Cys Gln Met His Asp Phe Gln Asp Gly Val Leu Tyr
 305 310 315 320
 Leu Tyr Glu Gln Gly Lys Leu Phe Gln Gln Ile Met His Tyr His Met
 325 330 335
 Gln His Glu Gln Tyr Arg Gln Ser Ser Ala Cys Val Ser Ala Met Gly
 340 345 350
 Ser Arg Thr Pro Pro Cys Gly Ser Arg Pro Ser Ala Thr Ser Leu Ala
 355 360 365

Arg Arg Arg Thr Ala Arg Ser Met Trp Gln Leu Ser Ser Ser Ile Ser
 370 375 380

Arg Thr Arg Thr Ser Cys His Leu Phe
 385 390

<210> 550

<211> 786

<212> PRT

<213> Homo sapiens

<400> 550

Arg Ser His Ser Val Tyr Ile Thr Ser Thr Val Leu Ala Pro Asn Val
 1 5 10 15

Leu Cys Val Leu Leu Leu Trp Leu Asn Pro Gln Ala Leu Val Gly Ala
 20 25 30

Gln Gly Gly Arg Met Ser Gln Trp Tyr Glu Leu Gln Gln Leu Asp Ser
 35 40 45

Lys Phe Leu Glu Gln Val His Gln Leu Tyr Asp Asp Ser Phe Pro Met
 50 55 60

Glu Ile Arg Gln Tyr Leu Ala Gln Trp Leu Glu Lys Gln Asp Trp Glu
 65 70 75 80

His Ala Ala Asn Asp Val Ser Phe Ala Thr Ile Arg Phe His Asp Leu
 85 90 95

Leu Ser Gln Leu Asp Asp Gln Tyr Ser Arg Phe Ser Leu Glu Asn Asn
 100 105 110

Phe Leu Leu Gln His Asn Ile Arg Lys Ser Lys Arg Asn Leu Gln Asp
 115 120 125

Asn Phe Gln Glu Asp Pro Ile Gln Met Ser Met Ile Ile Tyr Ser Cys
 130 135 140

Leu Lys Glu Glu Arg Lys Ile Leu Glu Asn Ala Gln Arg Phe Asn Gln
 145 150 155 160

Ala Gln Ser Gly Asn Ile Gln Ser Thr Val Met Leu Asp Lys Gln Lys
 165 170 175

Glu Leu Asp Ser Lys Val Arg Asn Val Lys Asp Lys Val Met Cys Ile
 180 185 190

Glu His Glu Ile Lys Ser Leu Glu Asp Leu Gln Asp Glu Tyr Asp Phe
 195 200 205
 Lys Cys Lys Thr Leu Gln Asn Arg Glu His Glu Thr Asn Gly Val Ala
 210 215 220
 Lys Ser Asp Gln Lys Gln Glu Gln Leu Leu Lys Lys Met Tyr Leu
 225 230 235 240
 Met Leu Asp Asn Lys Arg Lys Glu Val Val His Lys Ile Ile Glu Leu
 245 250 255
 Leu Asn Val Thr Glu Leu Thr Gln Asn Ala Leu Ile Asn Asp Glu Leu
 260 265 270
 Val Glu Trp Lys Arg Arg Gln Gln Ser Ala Cys Ile Gly Gly Pro Pro
 275 280 285
 Asn Ala Cys Leu Asp Gln Leu Gln Asn Trp Phe Thr Ile Val Ala Glu
 290 295 300
 Ser Leu Gln Gln Val Arg Gln Gln Leu Lys Lys Leu Glu Glu Leu Glu
 305 310 315 320
 Gln Lys Tyr Thr Tyr Glu His Asp Pro Ile Thr Lys Asn Lys Gln Val
 325 330 335
 Leu Trp Asp Arg Thr Phe Ser Leu Phe Gln Gln Leu Ile Gln Ser Ser
 340 345 350
 Phe Val Val Glu Arg Gln Pro Cys Met Pro Thr His Pro Gln Arg Pro
 355 360 365
 Leu Val Leu Lys Thr Gly Val Gln Phe Thr Val Lys Leu Arg Leu Leu
 370 375 380
 Val Lys Leu Gln Glu Leu Asn Tyr Asn Leu Lys Val Lys Val Leu Phe
 385 390 395 400
 Asp Lys Asp Val Asn Glu Arg Asn Thr Val Lys Gly Phe Arg Lys Phe
 405 410 415
 Asn Ile Leu Gly Thr His Thr Lys Val Met Asn Met Glu Glu Ser Thr
 420 425 430
 Asn Gly Ser Leu Ala Ala Glu Phe Arg His Leu Gln Leu Lys Glu Gln
 435 440 445
 Lys Asn Ala Gly Thr Arg Thr Asn Glu Gly Pro Leu Ile Val Thr Glu
 450 455 460

Glu Leu His Ser Leu Ser Phe Glu Thr Gln Leu Cys Gln Pro Gly Leu
 465 470 475 480
 Val Ile Asp Leu Glu Thr Thr Ser Leu Pro Val Val Val Ile Ser Asn
 485 490 495
 Val Ser Gln Leu Pro Ser Gly Trp Ala Ser Ile Leu Trp Tyr Asn Met
 500 505 510
 Leu Val Ala Glu Pro Arg Asn Leu Ser Phe Phe Leu Thr Pro Pro Cys
 515 520 525
 Ala Arg Trp Ala Gln Leu Ser Glu Val Leu Ser Trp Gln Phe Ser Ser
 530 535 540
 Val Thr Lys Arg Gly Leu Asn Val Asp Gln Leu Asn Met Leu Gly Glu
 545 550 555 560
 Lys Leu Leu Gly Pro Asn Ala Ser Pro Asp Gly Leu Ile Pro Trp Thr
 565 570 575
 Arg Phe Cys Lys Glu Asn Ile Asn Asp Lys Asn Phe Pro Phe Trp Leu
 580 585 590
 Trp Ile Glu Ser Ile Leu Glu Leu Ile Lys Lys His Leu Leu Pro Leu
 595 600 605
 Trp Asn Asp Gly Cys Ile Met Gly Phe Ile Ser Lys Glu Arg Glu Arg
 610 615 620
 Ala Leu Leu Lys Asp Gln Gln Pro Gly Thr Phe Leu Leu Arg Phe Ser
 625 630 635 640
 Glu Ser Ser Arg Glu Gly Ala Ile Thr Phe Thr Trp Val Glu Arg Ser
 645 650 655
 Gln Asn Gly Gly Glu Pro Asp Phe His Ala Val Glu Pro Tyr Thr Lys
 660 665 670
 Lys Glu Leu Ser Ala Val Thr Phe Pro Asp Ile Ile Arg Asn Tyr Lys
 675 680 685
 Val Met Ala Ala Glu Asn Ile Pro Glu Asn Pro Leu Lys Tyr Leu Tyr
 690 695 700
 Pro Asn Ile Asp Lys Asp His Ala Phe Gly Lys Tyr Tyr Ser Arg Pro
 705 710 715 720
 Lys Glu Ala Pro Glu Pro Met Glu Leu Asp Gly Pro Lys Gly Thr Gly
 725 730 735

492

Tyr Ile Lys Thr Glu Leu Ile Ser Val Ser Glu Val His Pro Ser Arg
 740 745 750

Leu Gln Thr Thr Asp Asn Leu Leu Pro Met Ser Pro Glu Glu Phe Asp
 755 760 765

Glu Val Ser Arg Ile Val Gly Ser Val Glu Phe Asp Ser Met Met Asn
 770 775 780

Thr Val
 785

<210> 551

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 551

Gly Thr Ser Leu Arg Glu Ser Gln Arg Ser Leu Trp Gly Val Arg Leu
 1 5 10 15

Arg Gly Cys Pro Arg Thr Glu Pro Arg Ser Ala Ser Gly Glu Pro Arg
 20 25 30

Glu Val Gly Val Gly Pro Ala Ala Gly Gln Glu Pro Cys Xaa Leu Glu
 35 40 45

Asp Pro Pro Lys Arg Lys Gln Thr Leu Phe Phe Phe Ile Gln Pro Gln
 50 55 60

Ile Ala Arg Ala
 65

<210> 552

<211> 511

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (45)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (46)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (412)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (476)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (492)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (504)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 552
 Asp Pro Gly Val Pro Gly Pro Glu Ala Gly His Glu Arg Ala Ala Glu
 1 5 10 15
 Arg Gly Glu Gly Val Pro Glu Gln Arg Gln Leu Arg Gly Glu Leu His
 20 25 30
 Pro Glu Tyr His Leu His Arg Gly Ala Gly Ala Xaa Xaa Xaa Ala Thr
 35 40 45
 Leu Val Val Gly Gly Asp Gly Arg Phe Tyr Met Lys Glu Ala Ile Gln
 50 55 60
 Leu Ile Ala Arg Ile Ala Ala Ala Asn Gly Ile Gly Arg Leu Val Ile
 65 70 75 80
 Gly Gln Asn Gly Ile Leu Ser Thr Pro Ala Val Ser Cys Ile Ile Arg
 85 90 95
 Lys Ile Lys Ala Ile Gly Gly Ile Ile Leu Thr Ala Ser His Asn Pro

100	105	110
Gly Gly Pro Asn Gly Asp Phe Gly Ile Lys Phe Asn Ile Ser Asn Gly		
115	120	125
Gly Pro Ala Pro Glu Ala Ile Thr Asp Lys Ile Phe Gln Ile Ser Lys		
130	135	140
Thr Ile Glu Glu Tyr Ala Val Cys Pro Asp Leu Lys Val Asp Leu Gly		
145	150	155
Val Leu Gly Lys Gln Gln Phe Asp Leu Glu Asn Lys Phe Lys Pro Phe		
165	170	175
Thr Val Glu Ile Val Asp Ser Val Glu Ala Tyr Ala Thr Met Leu Arg		
180	185	190
Ser Ile Phe Asp Phe Ser Ala Leu Lys Glu Leu Leu Ser Gly Pro Asn		
195	200	205
Arg Leu Lys Ile Arg Ile Asp Ala Met His Gly Val Val Gly Pro Tyr		
210	215	220
Val Lys Lys Ile Leu Cys Glu Glu Leu Gly Ala Pro Ala Asn Ser Ala		
225	230	235
Val Asn Cys Val Pro Leu Glu Asp Phe Gly Gly His His Pro Asp Pro		
245	250	255
Asn Leu Thr Tyr Ala Ala Asp Leu Val Glu Thr Met Lys Ser Gly Glu		
260	265	270
His Asp Phe Gly Ala Ala Phe Asp Gly Asp Gly Asp Arg Asn Met Ile		
275	280	285
Leu Gly Lys His Gly Phe Phe Val Asn Pro Ser Asp Ser Val Ala Val		
290	295	300
Ile Ala Ala Asn Ile Phe Ser Ile Pro Tyr Phe Gln Gln Thr Gly Val		
305	310	315
Arg Gly Phe Ala Arg Ser Met Pro Thr Ser Gly Ala Leu Asp Arg Val		
325	330	335
Ala Ser Ala Thr Lys Ile Ala Leu Tyr Glu Thr Pro Thr Gly Trp Lys		
340	345	350
Phe Phe Gly Asn Leu Met Asp Ala Ser Lys Leu Ser Leu Cys Gly Glu		
355	360	365
Glu Ser Phe Gly Thr Gly Ser Asp His Ile Arg Glu Lys Asp Gly Leu		

495

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370          375          380
Trp Ala Val Leu Ala Trp Leu Ser Ile Leu Ala Thr Arg Lys Gln Ser
385          390          395          400
Val Glu Asp Ile Leu Lys Asp His Trp Gln Lys Xaa Gly Arg Asn Phe
          405          410          415
Phe Thr Arg Tyr Asp Tyr Glu Glu Val Glu Ala Glu Gly Ala Asn Lys
          420          425          430
Met Met Lys Asp Leu Glu Ala Leu Met Phe Asp Arg Ser Phe Val Gly
          435          440          445
Lys Gln Phe Ser Ala Asn Asp Lys Val Tyr Thr Val Glu Lys Ala Asp
          450          455          460
Asn Phe Glu Tyr Ser Asp Pro Val Asp Gly Ser Xaa Ser Arg Asn Gln
465          470          475          480
Gly Leu Arg Leu Ile Phe Thr Asp Gly Ser Arg Xaa Arg Leu Pro Thr
          485          490          495
Glu Arg His Trp Glu Cys Gly Xaa His His Ser Ala Val His Arg
          500          505          510

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<210> 553

<211> 184

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 553

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Gln Pro Ser Pro His Ser Gln Ser Arg Pro Ser Pro Gln Lys Asp Pro
 1          5          10          15
Gln Pro Leu Leu Leu Pro Arg Leu Asp Pro Gly Gln Arg Gly Asn Lys
          20          25          30
Leu Pro Thr Gly Glu Gln Gly Leu Asp Glu Asp Val Asp Gly Val Cys
          35          40          45
Glu Ser His Ala Ala Pro Gly Leu Glu Cys Ser Ser Gly Ser Ala Asn
          50          55          60

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Cys Gln Gly Ala Gly Pro Ser Ala Asp Gly Ile Ser Ser Arg Leu Thr
 65 70 75 80
 Pro Ala Glu Ser Cys Met Gly Leu Val Arg Met Asn Leu Tyr Thr His
 85 90 95
 Cys Val Lys Gly Leu Met Leu Ser Leu Leu Ala Glu Glu Pro Leu Leu
 100 105 110
 Gly Asp Ser Ala Pro Xaa Glu Glu Val Tyr His Ser Ser Leu Ala Ser
 115 120 125
 Leu Asn Gly Leu Glu Val His Leu Lys Glu Thr Leu Pro Arg Asp Glu
 130 135 140
 Ala Ala Ser Thr Ser Ser Thr Tyr Asn Phe Thr Tyr Tyr Asp Arg Ile
 145 150 155 160
 Gln Ser Leu Leu Met Ala Asn Leu Pro Gln Trp Pro Pro Arg Met Ile
 165 170 175
 Ala Ala Ser Ser Arg Pro Ser Ala
 180

<210> 554

<211> 80

<212> PRT

<213> Homo sapiens

<400> 554

Ala Arg Ala Val Gly Tyr Leu Thr Thr Pro Thr Ala Ala Leu Ala Ser
 1 5 10 15
 Ala Pro Thr Ser Val Leu Ser Gln Ser Gly Ala Leu Val Arg Met Gln
 20 25 30
 Gly Val Pro Tyr Thr Ala Gly Met Lys Asp Leu Leu Ser Val Phe Gln
 35 40 45
 Ala Tyr Gln Leu Pro Ala Asp Asp Tyr Thr Ser Leu Met Pro Val Gly
 50 55 60
 Asp Pro Pro Arg Thr Val Leu Gln Ala Pro Lys Glu Trp Val Cys Leu
 65 70 75 80

<210> 555
<211> 141
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (136)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 555
Gly His Glu Leu Glu Thr Thr Ala Asp Val Glu Glu Ile Thr Gly Glu
1 5 10 15
Gly Leu Thr Ala Ser Gly Ser Gly Asp Val Met Arg Arg Arg Ile Ala
20 25 30
Thr Pro Glu Glu Val Arg Leu Pro Leu Gln His Gly Trp Arg Arg Glu
35 40 45
Val Arg Ile Lys Lys Gly Ser His Arg Trp Gln Gly Glu Thr Trp Tyr
50 55 60
Tyr Gly Pro Cys Gly Lys Arg Met Lys Gln Phe Pro Glu Val Ile Lys
65 70 75 80
Tyr Leu Ser Arg Asn Val Val His Ser Val Arg Arg Glu His Phe Ser
85 90 95
Phe Ser Pro Arg Met Pro Val Gly Asp Phe Phe Glu Arg Lys Arg His
100 105 110
Ala Arg Gly Ala Asp Pro Lys Val Lys Tyr Ala Phe Val Pro Glu Glu
115 120 125
Glu Leu Val Asp Lys Leu Gln Xaa Pro Leu Val Gly Val
130 135 140

<210> 556
<211> 110
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (105)
<223> Xaa equals any of the naturally occurring L-amino acids

498

<400> 556

Glu Ser Met Asn Ile Phe Glu Thr Ile Val Asn Asn Lys Leu Phe Phe
 1 5 10 15

Asn Val Ser Ile Ile Leu Phe Leu Asn Lys Met Asp Leu Leu Val Glu
 20 25 30

Lys Val Lys Thr Val Ser Ile Lys Lys His Phe Pro Asp Phe Arg Gly
 35 40 45

Asp Pro His Arg Leu Glu Asp Val Gln Arg Tyr Leu Val Gln Cys Phe
 50 55 60

Asp Arg Lys Arg Arg Asn Arg Ser Lys Pro Leu Phe His His Phe Thr
 65 70 75 80

Thr Ala Ile Asp Thr Glu Asn Val Arg Phe Val Phe His Ala Val Lys
 85 90 95

Asp Thr Ile Leu Gln Glu Asn Leu Xaa Asp Ile Met Leu Gln
 100 105 110

<210> 557

<211> 99

<212> PRT

<213> Homo sapiens

<400> 557

Lys Ser Asn Lys Asn Ile Leu Phe Ile Ile Ala Leu Cys Phe Gly Leu
 1 5 10 15

Cys Arg Pro Pro Asp Thr His Glu Ala Pro Thr Ser Gln Ala Gly Lys
 20 25 30

Ala Lys Ser Leu Pro Ser Ala Phe Leu Val Met Leu His Leu Ala Glu
 35 40 45

Cys Leu Gln Gly Leu Asp Pro Ser Ala Leu Arg His Ser Trp Ala Lys
 50 55 60

Gln Lys Glu Arg Asn Thr Ser Ala Val Thr Leu Asn Glu Leu Arg Asn
 65 70 75 80

Ser Phe Pro Leu Asp Cys Arg Gly Ala Asn Cys Leu Glu Gln Lys Thr
 85 90 95

Ala Gly Cys

<210> 558
<211> 51
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 558
Phe Xaa Pro Leu Pro Phe Phe Phe Phe Leu Ser Pro Ser Gly Gly Ile
1 5 10 15
Pro Glu Glu Gly Ile Val Val Met Gly Asp Asn Ser Ser Met His Val
20 25 30
Ile Ala Pro Glu Asp Leu Pro Val Lys Arg Asp Val Glu Val Glu Asp
35 40 45
Ser Asp Ile
50

<210> 559
<211> 160
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (138)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (152)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (158)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 559
Thr His Ala Ser Gly Arg Gly Cys Cys Gly Arg Val Arg Leu Leu Arg
1 5 10 15

500

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Arg Gly Leu His Val Asp Cys Gly Lys Leu Gly Asn Lys Leu Thr Ser
      20                      25                      30

Ser Cys Gly Lys Pro Ser Ser Asn Arg Met Ser Leu Gln Trp Thr Ala
      35                      40                      45

Val Ala Thr Phe Leu Tyr Ala Glu Val Phe Val Val Leu Leu Leu Cys
      50                      55                      60

Ile Pro Phe Ile Ser Pro Lys Arg Trp Gln Lys Ile Phe Lys Ser Arg
      65                      70                      75                      80

Leu Val Glu Leu Leu Val Ser Tyr Gly Asn Thr Phe Phe Val Val Leu
      85                      90                      95

Ile Val Ile Leu Val Leu Leu Val Ile Asp Ala Val Arg Glu Ile Arg
      100                     105                     110

Lys Tyr Asp Asp Val Thr Glu Lys Val Asn Leu Gln Asn Asn Pro Gly
      115                     120                     125

Ala Met Glu His Phe His Met Lys Leu Xaa Pro Cys Pro Glu Glu Ser
      130                     135                     140

Leu Thr Leu Ala Gly Phe Ser Xaa Trp Cys Pro Pro Val Xaa Ser Pro
      145                     150                     155                     160

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<210> 560

<211> 81

<212> PRT

<213> Homo sapiens

<400> 560

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Trp Arg Ser Arg Arg Arg Met Glu Glu Leu Arg Met Leu Glu Glu Glu
  1                      5                      10                      15

Asn Gln Gly Gly Gly Ser Asp Met Pro Trp Arg Leu Val Gly Ser Gly
      20                      25                      30

Leu Glu Gly Gly Gln Ala Gly Ser Gly Arg Pro Trp Glu Lys Trp Arg
      35                      40                      45

Glu Val Ser Gly Gly Leu Ala Ser Ala Ala Ala Pro Trp Trp Val Pro
      50                      55                      60

Gly Leu Ala Thr Ala Arg Ala Gly Arg Gly Glu Gly Arg Gly Leu Pro

```

501

65 70 75 80

Asn

<210> 561

<211> 67

<212> PRT

<213> Homo sapiens

<400> 561

Gln Leu Thr Gly Cys Arg His Gly Arg Gly Phe Leu Lys Ile Ser Leu
1 5 10 15

Ser Ile Thr Ile Ser Ile Phe Thr Phe Glu Asn Leu Leu Trp Arg Leu
20 25 30

Arg Thr Ser Lys Leu Leu Thr Tyr Phe Leu Tyr Lys Val Thr Pro Met
35 40 45

Lys Gly Asp Tyr Lys Ile Ile Tyr Ile Ala Val Tyr Lys Thr Asp Asn
50 55 60

Met Asp Val
65

<210> 562

<211> 87

<212> PRT

<213> Homo sapiens

<400> 562

Arg Ile His Glu Lys Tyr Glu Ile Trp Phe His Pro Val Arg His Phe
1 5 10 15

Asn Arg Glu Asp Gln Asn Val Thr Trp Gln Leu Gly Asn Asn Leu Thr
20 25 30

Ser Leu Ala Val Gly Leu Asn Phe Leu Ile Ile Asp Pro Gly Ile Phe
35 40 45

Gln Pro Glu Thr Gln Leu Ser Gly Arg Gln Thr Asn Cys Thr Thr Pro
50 55 60

Thr Ile Ser Trp Thr Leu Lys Phe Cys Leu Leu Gln Ser Ile Val Ser
65 70 75 80

Phe Lys Ala Pro Val Leu Ala
85

<210> 563
<211> 123
<212> PRT
<213> Homo sapiens

<400> 563
His Phe Leu Gln Pro Ser Leu Ser Gln Ile Cys His Ile Gly Leu Pro
1 5 10 15
Phe Gln Pro Arg His Leu Thr Arg Ala Ile Cys Cys Arg Val Thr Arg
20 25 30
Asp Gly Ser Ala Phe Glu Asp Gly Leu Arg His Pro Phe Ile Val Asn
35 40 45
His Pro Lys Val Gly Arg Val Ser Ile Tyr Asp Ser Lys Arg Gln Ser
50 55 60
Gly Lys Thr Lys Glu Thr Ser Val Asn Trp Cys Leu Ala Asp Gly Tyr
65 70 75 80
Asp Leu Glu Ile Leu Asp Gly Thr Arg Gly Thr Val Asp Gly Pro Arg
85 90 95
Asn Glu Leu Ser Arg Val Ser Lys Lys Asn Ile Phe Leu Leu Phe Lys
100 105 110
Lys Leu Cys Ser Phe Arg Tyr Arg Arg Ile Tyr
115 120

<210> 564
<211> 188
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (117)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 564
Tyr Val Met Glu Ser Arg Asp Pro Ser Thr Asn Val Ile Leu Leu Glu
1 5 10 15

Asp Thr Ala Ala Val Leu Gly Val Ile Ile Ala Ala Thr Cys Met Gly
 20 25 30
 Leu Thr Ser Ile Thr Gly Asn Pro Leu Tyr Asp Ser Leu Gly Ser Leu
 35 40 45
 Gly Val Gly Thr Leu Leu Gly Met Val Ser Ala Phe Leu Ile Tyr Thr
 50 55 60
 Asn Thr Glu Ala Leu Leu Gly Arg Ser Ile Gln Pro Glu Gln Val Gln
 65 70 75 80
 Arg Leu Thr Glu Leu Leu Glu Asn Asp Pro Ser Val Arg Ala Ile His
 85 90 95
 Asp Val Lys Ala Thr Asp Leu Gly Leu Gly Lys Val Arg Phe Lys Ala
 100 105 110
 Glu Val Asp Phe Xaa Gly Arg Val Val Thr Arg Ser Tyr Leu Glu Lys
 115 120 125
 Gln Asp Phe Asp Gln Met Leu Gln Glu Ile Gln Glu Val Lys Thr Pro
 130 135 140
 Glu Glu Leu Glu Thr Phe Met Leu Lys His Gly Glu Asn Ile Ile Asp
 145 150 155 160
 Thr Leu Gly Ala Glu Val Asp Arg Leu Glu Lys Glu Leu Lys Lys Arg
 165 170 175
 Asn Pro Glu Val Arg His Val Asp Leu Glu Ile Leu
 180 185

<210> 565

<211> 71

<212> PRT

<213> Homo sapiens

<400> 565

Asp Val Ile Ser Met Glu Leu Arg Phe Asp Phe Ser His Ser Leu Thr
 1 5 10 15
 His Arg Arg Arg Thr Lys Glu Arg Asn Glu Ile Met Leu Thr Met Lys
 20 25 30
 Leu Phe Ile Thr Ser Thr Asp Leu Ser Leu Ser Leu Phe Leu Ser Phe
 35 40 45
 Ser Phe Ser His Thr Pro Arg Gln Asn Phe Phe Lys Glu Met Thr Leu

50 55 60

Lys Thr Ile Ile Ser Val Phe
65 70

<210> 566
<211> 51
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 566
Ser Pro Gly Leu Pro Glu Phe Gly Gln Ser Ala Ser Leu Pro Leu Leu
1 5 10 15
Pro Ala Ala Val Ala Ala Pro Phe Asp Asp Asp Asp Lys Ile Val Gly
20 25 30
Gly Tyr Xaa Xaa Glu Glu Lys Phe Cys Pro Pro Thr Arg Cys Pro Xaa
35 40 45
Asn Ser Gly
50

<210> 567
<211> 473
<212> PRT
<213> Homo sapiens

<400> 567
Ile Arg His Asp Gly Thr Ala Thr Met Leu Pro Leu Trp Thr Leu Ser
1 5 10 15

Leu Leu Leu Gly Ala Val Ala Gly Lys Glu Val Cys Tyr Glu Arg Leu
 20 25 30

Gly Cys Phe Ser Asp Asp Ser Pro Trp Ser Gly Ile Thr Glu Arg Pro
 35 40 45

Leu His Ile Leu Pro Trp Ser Pro Lys Asp Val Asn Thr Arg Phe Leu
 50 55 60

Leu Tyr Thr Asn Glu Asn Pro Asn Asn Phe Gln Glu Val Ala Ala Asp
 65 70 75 80

Ser Ser Ser Ile Ser Gly Ser Asn Phe Lys Thr Asn Arg Lys Thr Arg
 85 90 95

Phe Ile Ile His Gly Phe Ile Asp Lys Gly Glu Glu Asn Trp Leu Ala
 100 105 110

Asn Val Cys Lys Asn Leu Phe Lys Val Glu Ser Val Asn Cys Ile Cys
 115 120 125

Val Asp Trp Lys Gly Gly Ser Arg Thr Gly Tyr Thr Gln Ala Ser Gln
 130 135 140

Asn Ile Arg Ile Val Gly Ala Glu Val Ala Tyr Phe Val Glu Phe Leu
 145 150 155 160

Gln Ser Ala Phe Gly Tyr Ser Pro Ser Asn Val His Val Ile Gly His
 165 170 175

Ser' Leu Gly Ala His Ala Ala Gly Glu Ala Gly Arg Arg Thr Asn Gly
 180 185 190

Thr Ile Gly Arg Ile Thr Gly Leu Asp Pro Ala Glu Pro Cys Phe Gln
 195 200 205

Gly Thr Pro Glu Leu Val Arg Leu Asp Pro Ser Asp Ala Lys Phe Val
 210 215 220

Asp Val Ile His Thr Asp Gly Ala Pro Ile Val Pro Asn Leu Gly Phe
 225 230 235 240

Gly Met Ser Gln Val Val Gly His Leu Asp Phe Phe Pro Asn Gly Gly
 245 250 255

Val Glu Met Pro Gly Cys Lys Lys Asn Ile Leu Ser Gln Ile Val Asp
 260 265 270

Ile Asp Gly Ile Trp Glu Gly Thr Arg Asp Phe Ala Ala Cys Asn His
 275 280 285

506

Leu Arg Ser Tyr Lys Tyr Tyr Thr Asp Ser Ile Val Asn Pro Asp Gly
 290 295 300

Phe Ala Gly Phe Pro Cys Ala Ser Tyr Asn Val Phe Thr Ala Asn Lys
 305 310 315 320

Cys Phe Pro Cys Pro Ser Gly Gly Cys Pro Gln Met Gly His Tyr Ala
 325 330 335

Asp Arg Tyr Pro Gly Lys Thr Asn Asp Val Gly Gln Lys Phe Tyr Leu
 340 345 350

Asp Thr Gly Asp Ala Ser Asn Phe Ala Arg Trp Arg Tyr Lys Val Ser
 355 360 365

Val Thr Leu Ser Gly Lys Lys Val Thr Gly His Ile Leu Val Ser Leu
 370 375 380

Phe Gly Asn Lys Gly Asn Ser Lys Gln Tyr Glu Ile Phe Lys Gly Thr
 385 390 395 400

Leu Lys Pro Asp Ser Thr His Ser Asn Glu Phe Asp Ser Asp Val Asp
 405 410 415

Val Gly Asp Leu Gln Met Val Lys Phe Ile Trp Tyr Asn Asn Val Ile
 420 425 430

Asn Pro Thr Leu Pro Arg Val Gly Ala Ser Lys Ile Ile Val Glu Thr
 435 440 445

Asn Val Gly Lys Gln Phe Asn Phe Cys Ser Pro Glu Thr Val Arg Glu
 450 455 460

Glu Val Leu Leu Thr Leu Thr Pro Cys
 465 470

<210> 568

<211> 103

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 568

Arg Gly Thr Ala Lys Lys Gln Ser Gly Arg Ile Glu Val Pro Thr Ser
 1 5 10 15

Ala Arg Gly Pro Cys His Ile Trp Thr Val Leu Trp Arg Arg Gln Leu
 20 25 30

His His Ser Val Gln Leu Pro Pro Trp Trp Pro Pro Gly Gln Ile Ile
 35 40 45

Tyr Asn Trp Gln Gly Ala Gln Ser Thr Gln Asp Glu Val Ala Ala Ser
 50 55 60

Ala Ile Leu Thr Ala Gln Leu Asp Glu Glu Leu Gly Gly Thr Pro Val
 65 70 75 80

Gln Val Ser Pro Ala His Xaa Leu Ser Gly Leu Gln Pro Glu Pro Cys
 85 90 95

Pro Ser Leu His Ser Ser Val
 100

<210> 569
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 569
 Leu Lys Val Phe His Thr Gly Glu Arg Leu Tyr Pro Leu Ile His Asp
 1 5 10 15

Val His Thr Gln Leu Ala Gly Lys Ile Thr Gly Met Leu Leu Glu Ile
 20 25 30

Asp Asn Ser Glu Leu Leu Leu Met Leu Glu Ser Pro Glu Ser Leu His
 35 40 45

Ala Lys Ile Asp Glu Ala Val Ala Val Leu Gln Ala His Gln Ala Met
 50 55 60

Glu Gln Pro Lys Ala Tyr Met His
 65 70

<210> 570
 <211> 136
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (121)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 570

Ser	Cys	Gln	Tyr	Gly	Val	Gln	Ser	Asn	Lys	Asp	Gly	Ser	Glu	Lys	Leu
1				5					10					15	

Glu	Glu	Asn	Asn	Ile	Met	Thr	Gln	Glu	Ser	Arg	Ala	Cys	Ser	Ser	Val
		20						25					30		

Trp	Lys	Glu	Phe	Gly	Ser	Val	Gly	Arg	Cys	Asn	Val	His	Arg	His	Phe
	35						40					45			

Gln	Gly	Asn	Ser	Lys	Gln	Ser	Pro	Phe	Pro	Phe	Ala	Phe	Pro	Gln	Ile
	50					55					60				

Leu	Ser	Val	Tyr	Ile	Lys	Pro	Trp	Val	His	Ile	Val	Val	Val	Ile	Glu
65					70					75				80	

Gly	Asn	Trp	Leu	Asn	Ser	Thr	Leu	Val	Tyr	Gly	Thr	Phe	Cys	Gly	His
			85							90				95	

Leu	Arg	Lys	Thr	Ser	Tyr	Xaa	Leu	Xaa	Gly	Gly	Xaa	Cys	Cys	Pro	Ala
			100					105						110	

Arg	Gly	Arg	Xaa	Ile	Leu	Thr	Thr	Xaa	Pro	Pro	Trp	Pro	Leu	Ser	Thr
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

115 120 125
 Phe His Gly Gly His Ala Xaa His
 130 135

<210> 571
 <211> 79
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (13)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (64)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (71)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (79)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 571
 Trp Thr Arg Thr Glu Ile Trp Ile Leu Arg Cys Arg Xaa Gly Gly Glu
 1 5 10 15
 Gly Met Val Glu Ile Asp Ser Ser Pro Leu Leu Gly Trp Val Ile Ser
 20 25 30
 Pro Asn Asn Tyr Arg Glu Thr Val Phe Gln Leu Ser Phe His Cys Cys
 35 40 45
 Phe Gln Lys Ser Gly Glu Cys Gly Phe Arg Gln Gly Ile Asn Asp Xaa
 50 55 60
 Ile Pro Trp Tyr Tyr Ser Xaa Leu Trp Thr Phe Gly Ser Phe Xaa
 65 70 75

<210> 572

<211> 146
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (6)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (114)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (141)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 572
 Xaa Arg Gly Val Gly Xaa Gln Arg Cys Trp Asn Phe Val Ala Cys Leu
 1 5 10 15
 Pro Val Arg Ala Cys Ala Asp Met Ala Ser Asn Asp Tyr Thr Gln Gln
 20 25 30
 Ala Thr Gln Ser Tyr Gly Ala Tyr Pro Thr Gln Pro Gly Gln Gly Tyr
 35 40 45
 Ser Gln Gln Ser Ser Gln Pro Tyr Gly Gln Gln Ser Tyr Ser Gly Tyr
 50 55 60
 Ser Gln Ser Thr Asp Thr Ser Gly Tyr Gly Gln Ser Ser Tyr Ser Ser
 65 70 75 80
 Tyr Gly Gln Ser Gln Asn Ser Glu Ser Phe Ser Ala Gly His Leu Phe
 85 90 95
 Leu Leu Phe Leu Asn Ile Ala Phe Leu Phe Leu Val Phe Trp Arg Arg
 100 105 110
 Ser Xaa Val Leu Leu Pro Arg Leu Glu Cys Ser Gly Ala Val Ser Ala
 115 120 125
 Ser Leu Gln His Gln Pro Thr Gly Phe Lys Arg Ile Xaa Pro Ala Ser
 130 135 140

Ala Ser
145

<210> 573
<211> 139
<212> PRT
<213> Homo sapiens

<400> 573
Gly Ala Ala Glu Lys Phe Arg Glu His Arg Pro Thr Lys Leu Lys Ser
1 5 10 15
Leu Leu Arg Leu Val Asn Thr Gly Thr Ser Arg Pro Ile Ile Leu Asp
20 25 30
Pro Ala Asp Pro Thr Leu Asn Val Ala Glu Gly Tyr Arg Trp Asp Ile
35 40 45
Val Ala Gln Arg Ala Ser Gln Cys Leu Lys Gln Asp Cys Cys Tyr Asp
50 55 60
Asn Arg Glu Asn Pro Ile Ser Ser Trp Asn Val Lys Arg Ala Arg Asp
65 70 75 80
Ile His Leu Thr Val Glu Gln Arg Gly Tyr Pro Asp Phe Asn Leu Ile
85 90 95
Val Asn Pro Tyr Glu Pro Ile Arg Lys Val Lys Glu Lys Ile Arg Arg
100 105 110
Pro Gly Ala Thr Leu Ala Cys Ser Val Cys Pro Ser Arg Phe Leu Ala
115 120 125
Val Arg Gly Ser Phe Ser Ala Ala Gly Ala Pro
130 135

<210> 574
<211> 101
<212> PRT
<213> Homo sapiens

<400> 574
Arg Arg Leu Lys Lys Lys Lys Thr Thr Ile Lys Lys Asn Thr Leu Asn
1 5 10 15
Pro Val Tyr Asn Glu Ala Ile Ile Phe Asp Ile Pro Pro Glu Asn Met

512

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                20                25                30
Asp Gln Val Ser Leu Leu Ile Ser Val Met Asp Tyr Asp Arg Val Gly
      35                40                45
His Asn Glu Ile Ile Gly Val Cys Arg Val Gly Ile Thr Ala Glu Gly
      50                55                60
Leu Gly Arg Asp His Trp Asn Glu Met Leu Ala Tyr Pro Arg Lys Pro
      65                70                75                80
Ile Ala His Trp His Ser Leu Val Glu Val Lys Lys Ser Phe Lys Glu
      85                90                95
Gly Asn Pro Arg Leu
      100

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<210> 575

<211> 170

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 575

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Leu His Thr Leu Ser Lys Val Asn Asn Glu Asp Pro Phe Arg Ser Ala
  1                5                10                15
Thr Ser Ser Ser Val Ser Asn Val Val Xaa Thr Lys Asn Val Phe Glu
      20                25                30
Glu Thr Ser Val Lys Ser Glu Asp Glu Pro Pro Ala Leu Pro Pro Lys
      35                40                45
Ile Gly Thr Pro Thr Arg Pro Cys Pro Leu Pro Pro Gly Lys Arg Ser
      50                55                60
Ile Asn Lys Leu Asp Ser Pro Asp Pro Phe Lys Leu Asn Asp Pro Phe
      65                70                75                80
Gln Pro Phe Pro Gly Asn Asp Ser Pro Lys Glu Lys Asp Pro Glu Ile
      85                90                95
Phe Cys Asp Pro Phe Thr Ser Ala Thr Thr Thr Thr Asn Lys Glu Ala
      100                105                110

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Asp Pro Ser Asn Phe Ala Asn Phe Ser Ala Tyr Pro Ser Glu Glu Asp
 115 120 125

Met Ile Glu Trp Ala Lys Arg Glu Ser Glu Arg Glu Glu Gln Arg
 130 135 140

Leu Ala Arg Leu Asn Gln Gln Glu Asp Leu Glu Leu Ala Ile
 145 150 155 160

Ala Leu Ser Lys Ser Glu Ile Ser Glu Ala
 165 170

<210> 576

<211> 269

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (167)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (213)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (220)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (234)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 576

Leu Ser Gly His Thr Met Ile Xaa Thr Leu Leu Leu Ser Thr Leu Val
 1 5 10 15

Ala Gly Ala Leu Ser Cys Gly Asp Pro Thr Tyr Pro Pro Tyr Val Thr
 20 25 30

Arg Val Val Gly Gly Glu Glu Ala Arg Pro Asn Ser Trp Pro Trp Gln
 35 40 45
 Val Ser Leu Gln Tyr Ser Ser Asn Gly Lys Trp Tyr His Thr Cys Gly
 50 55 60
 Gly Ser Leu Ile Ala Asn Ser Trp Val Leu Thr Ala Ala His Cys Ile
 65 70 75 80
 Ser Ser Ser Arg Thr Tyr Arg Val Gly Leu Gly Arg His Asn Leu Tyr
 85 90 95
 Val Ala Glu Ser Gly Ser Leu Ala Val Ser Val Ser Lys Ile Val Val
 100 105 110
 His Lys Asp Trp Asn Ser Asn Gln Ile Ser Lys Gly Asn Asp Ile Ala
 115 120 125
 Leu Leu Lys Leu Ala Asn Pro Val Ser Leu Thr Asp Lys Ile Gln Leu
 130 135 140
 Ala Cys Leu Pro Pro Ala Gly Thr Ile Leu Pro Asn Asn Tyr Pro Cys
 145 150 155 160
 Tyr Val Thr Gly Trp Gly Xaa Leu Gln Thr Asn Gly Ala Val Pro Asp
 165 170 175
 Val Leu Gln Gln Gly Arg Leu Leu Val Val Asp Tyr Ala Thr Cys Ser
 180 185 190
 Ser Ser Ala Trp Trp Gly Ser Ser Val Lys Thr Ser Met Ile Cys Ala
 195 200 205
 Gly Gly Asp Gly Xaa Ile Ser Ser Cys Asn Gly Xaa Ser Gly Gly Pro
 210 215 220
 Leu Asn Cys Gln Ala Ser Asp Gly Arg Xaa Gln Val Thr Ala Ser Ser
 225 230 235 240
 Ala Ser Gly Leu Ala Ser Ala Ala Thr Thr Thr Thr Ser Pro Pro Ser
 245 250 255
 Ser Arg Gly Ser Pro Ile Thr Ser Thr Gly Ser Ile Arg
 260 265

<210> 577

<211> 503

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (141)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 577

Ala Trp Val Ala Ala Arg Gly Pro Gly Glu Pro Phe Ala Glu Glu Arg
1 5 10 15

Arg Thr Ser Val Gly Met Ala Thr Asn Trp Gly Ser Leu Leu Gln Asp
20 25 30

Lys Gln Gln Leu Glu Glu Leu Ala Arg Gln Ala Val Asp Arg Ala Leu
35 40 45

Ala Glu Gly Val Leu Leu Arg Thr Ser Gln Glu Pro Thr Ser Ser Glu
50 55 60

Val Val Ser Tyr Ala Pro Phe Thr Leu Phe Pro Ser Leu Val Pro Ser
65 70 75 80

Ala Leu Leu Glu Gln Ala Tyr Ala Val Gln Met Asp Phe Asn Leu Leu
85 90 95

Val Asp Ala Val Ser Gln Asn Ala Ala Phe Leu Glu Gln Thr Leu Ser

100	105	110
Ser Thr Ile Lys Gln Asp Asp Phe Thr Ala Arg Leu Phe Asp Ile His		
115	120	125
Lys Gln Val Leu Lys Glu Gly Ile Ala Arg Leu Xaa Xaa Phe Xaa Xaa		
130	135	140
Xaa Xaa Asp Cys Val Pro Gly Pro Glu Ser Leu Arg Leu His Val Pro		
145	150	155
Ala Gln Glu Asp Gly Ser Pro Ala Leu Lys Gln Ile Glu Ile Asn Thr		
165	170	175
Ile Ser Ala Ser Phe Gly Gly Leu Ala Ser Arg Thr Pro Ala Val His		
180	185	190
Arg His Val Leu Ser Val Leu Ser Lys Thr Lys Glu Ala Gly Lys Ile		
195	200	205
Leu Ser Asn Asn Pro Ser Lys Gly Leu Ala Leu Gly Ile Ala Lys Ala		
210	215	220
Trp Glu Leu Tyr Gly Ser Pro Asn Ala Leu Val Leu Leu Ile Ala Gln		
225	230	235
Glu Lys Glu Arg Asn Ile Phe Asp Gln Arg Ala Ile Glu Asn Glu Leu		
245	250	255
Leu Ala Arg Asn Ile His Val Ile Arg Arg Thr Phe Glu Asp Ile Ser		
260	265	270
Glu Lys Gly Ser Leu Asp Gln Asp Arg Arg Leu Phe Val Asp Gly Gln		
275	280	285
Glu Ile Ala Val Val Tyr Phe Arg Asp Gly Tyr Met Pro Arg Gln Tyr		
290	295	300
Ser Leu Gln Asn Trp Glu Ala Arg Leu Leu Leu Glu Arg Ser His Ala		
305	310	315
Ala Lys Cys Pro Asp Ile Ala Thr Gln Leu Ala Gly Thr Lys Lys Val		
325	330	335
Gln Gln Glu Leu Ser Arg Pro Gly Met Leu Glu Met Leu Leu Pro Gly		
340	345	350
Gln Pro Glu Ala Val Ala Arg Leu Arg Ala Thr Phe Ala Gly Leu Tyr		
355	360	365
Ser Leu Asp Val Gly Glu Glu Gly Asp Gln Ala Ile Ala Glu Ala Leu		

370	375	380
Ala Ala Pro Ser Arg Phe Val Leu Lys Pro Gln Arg Glu Gly Gly Gly		
385	390	395 400
Asn Asn Leu Tyr Gly Glu Glu Met Val Gln Ala Leu Lys Gln Leu Lys		
	405	410 415
Asp Ser Glu Glu Arg Ala Ser Tyr Ile Leu Met Glu Lys Ile Glu Pro		
	420	425 430
Glu Pro Phe Glu Asn Cys Leu Leu Arg Pro Gly Ser Pro Ala Arg Val		
	435	440 445
Val Gln Cys Ile Ser Glu Leu Gly Ile Phe Gly Val Tyr Val Arg Gln		
	450	455 460
Glu Lys Thr Leu Val Met Asn Lys His Val Gly His Leu Leu Arg Thr		
465	470	475 480
Lys Ala Ile Glu His Ala Asp Gly Gly Val Ala Ala Gly Val Ala Val		
	485	490 495
Leu Asp Asn Pro Tyr Pro Val		
	500	

<210> 578

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 578

Leu Met Xaa Lys Leu Leu Glu His Gln Asp Thr Gln Ser Gly Lys Asp
1 5 10 15

His Arg Phe Leu Val Val Ser Gly Ser Thr Arg Thr Phe Gln Ile Gln
20 25 30

Glu Gln Arg Gln Trp Gln Arg Ser Xaa Ser Gly Gly His Gln Gly Asn

35	40	45
Gly Thr Ile Gly Leu Trp Val Val Leu		
50	55	
<210> 579		
<211> 210		
<212> PRT		
<213> Homo sapiens		
<400> 579		
Thr Asp His Pro Gly Arg Thr Gly Arg Pro Thr Leu Pro Gly Lys Val		
1	5	10 15
Thr Glu Glu Ile Val Ser Ser Glu His Asp Glu Gly Leu Ser Phe Ser		
	20	25 30
Gly Lys Val Gln Cys Tyr Gly Arg Glu Leu Asn Gln Pro Ala Ser Ala		
	35	40 45
Ala Lys Cys Thr Gly Asp Phe Ser Pro Ser Pro Glu Lys Leu Val Lys		
	50	55 60
Ser Gly Asn Pro Leu Gln Pro Val Ser Ile Glu Asn Arg Asn Leu Asp		
	65	70 75 80
Leu Lys His Leu Val Leu Glu Ser Ser Glu Pro Pro Phe Gly Pro Arg		
	85	90 95
Asn Val Ile Glu Asn Lys Ser Leu Ser Asp Thr Leu Val Ser Thr Thr		
	100	105 110
Ala Pro Ser Gly Ile Val Asn Val Ser Val Lys Gln Gln Thr Ser Pro		
	115	120 125
Lys Ser Ser Gln Asn His Leu Phe Pro Gly Asp Leu Lys Thr Asp Glu		
	130	135 140
Gly Ile Tyr Leu Gln Val Lys Ser Leu Thr Ala Ala Ser Val Asp Gly		
	145	150 155 160
Ala Tyr Ser Thr Gln Gly Cys Met Cys Ser Val Val Pro Thr Leu Cys		
	165	170 175
Ser Ser Ser Asp Asn Ala Thr Leu Thr His Tyr Val Arg Pro Ile Asn		
	180	185 190
Ala Glu Pro Ala Phe Gln Ala Gln Asn Thr Ser Arg Gln Asn Gly Gln		
	195	200 205

Phe Ala
210

<210> 580

<211> 154

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 580

Glu Lys Ile Ile Leu Ala Thr Gln Val Pro Cys His Val Arg Ile Gly
1 5 10 15

Gly Val Arg Leu Pro Val Val Ser Val Leu Ile His Phe Ile Thr Ser
20 25 30

Tyr Arg Ala Asn Met Asn Val Gly Val Ala His Ser Glu Val Asn Pro
35 40 45

Asn Thr Arg Val Met Asn Ser Arg Gly Met Trp Leu Thr Tyr Ala Leu
50 55 60

Gly Val Gly Leu Leu His Ile Val Leu Leu Ser Ile Pro Phe Phe Ser
65 70 75 80

Val Pro Val Ala Trp Thr Leu Thr Asn Ile Ile His Asn Leu Gly Met
85 90 95

Tyr Val Phe Leu His Ala Val Lys Gly Thr Pro Phe Glu Thr Pro Asp
100 105 110

Gln Gly Lys Ala Arg Leu Leu Thr His Trp Glu Gln Leu Asp Tyr Gly
115 120 125

Val Gln Phe Thr Ser Ser Arg Lys Phe Phe Thr Ile Ser Pro Ile Ile
130 135 140

Leu Xaa Phe Leu Ala Ser Ser Ile Arg Arg
145 150

<210> 581

<211> 133

<212> PRT

<213> Homo sapiens

<400> 581

Ala Val Pro Ser Glu Phe Pro Gly Arg Pro Thr Arg Pro Gln Leu Leu
1 5 10 15

Leu Glu Phe Ser Phe Trp Asn Glu Pro Val Pro Arg Ser Gly Pro Asn
20 25 30

Ile Tyr Glu Leu Arg Ser Tyr Gln Leu Arg Pro Gly Thr Met Ile Glu
35 40 45

Trp Gly Asn Tyr Trp Ala Arg Ala Ile Arg Phe Arg Gln Asp Gly Asn
50 55 60

Glu Ala Val Gly Gly Phe Phe Ser Gln Ile Gly Gln Leu Tyr Met Val
65 70 75 80

His His Leu Trp Ala Tyr Arg Asp Leu Gln Thr Arg Glu Asp Ile Arg
85 90 95

Asn Ala Ala Trp His Lys His Gly Trp Glu Glu Leu Val Tyr Tyr Thr
100 105 110

Val Pro Leu Ile Gln Glu Met Glu Ser Arg Ile Met Ile Pro Leu Lys
115 120 125

Thr Ser Pro Leu Gln
130

<210> 582

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 582

Gly Thr Val Xaa Xaa Asn Leu Arg Lys Val Asn Thr Trp Xaa Ile Thr
1 5 10 15

Arg Ser Lys Thr Ser Ala Thr Lys Ser Phe Ile Ser Cys Phe Leu Lys
20 25 30

Ala Val Leu Cys Ile Asn Asn Lys Trp Leu Tyr Leu Thr Lys Cys Lys
35 40 45

Val Arg Ile Leu His Ile Lys Leu Phe Phe Pro
50 55

<210> 583

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 583

Gly Arg Val Ile Glu Glu Leu Gly Gly Ile Asp Arg Ile Xaa Ala Leu
1 5 10 15

Gln Leu His Glu Asn Arg Gln Ile Gly Gln Ser Ala Leu Asn Ile Ile
20 25 30

Glu Lys His Phe Gly Glu Lys Thr Ser Arg Ser Asn Leu Leu Xaa Ser
35 40 45

Lys Ile Lys Glu Thr Val Lys Pro Thr Arg Asn Gln Pro Ser Gly Arg
50 55 60

Gly Glu Lys Thr Thr Xaa Leu Ser Asn Glu Arg Phe Pro Gly Gln Glu

522

65		70		75		80
His	Leu	Gly	Val	Arg	Asn	Arg
				Ser	Leu	His
					Pro	Gly
			85		90	

<210> 584

<211> 460

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (421)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (433)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (437)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (449)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (450)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 584

Glu	Thr	Cys	Pro	Asp	Arg	Gly	Phe	Pro	Asp	Trp	Cys	Trp	His	Gln	His
1					5					10				15	


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Arg His Arg Phe Ala Asp Xaa Thr Leu Pro Leu Ala Ser Gln Glu Ser
      20                      25                      30

Ala Val Val Glu Asp Leu Leu Tyr Val Leu Val Gly Val Asp Gly Arg
      35                      40                      45

Tyr Val Ser Ala Gln Pro Leu Ala Gly Arg Gln Ser Arg Thr Phe Leu
      50                      55                      60

Val Asp Pro Asn Leu Asp Leu Ser Ile Arg Glu Leu Val His Arg Ile
      65                      70                      75                      80

Leu Pro Val Ala Ala Ser Tyr Ser Ala Val Thr Arg Phe Ile Glu Glu
      85                      90                      95

Lys Ser Ser Phe Glu Tyr Gly Gln Val Asn His Ala Leu Xaa Ala Ala
      100                     105                     110

Met Arg Thr Leu Val Lys Glu His Leu Ile Leu Val Ser Gln Leu Glu
      115                     120                     125

Gln Leu His Arg Gln Gly Leu Leu Ser Leu Gln Lys Leu Trp Phe Tyr
      130                     135                     140

Ile Gln Pro Ala Met Arg Thr Met Asp Ile Leu Ala Ser Leu Ala Thr
      145                     150                     155                     160

Ser Val Asp Lys Gly Glu Cys Leu Gly Gly Ser Thr Leu Ser Leu Leu
      165                     170                     175

His Asp Arg Ser Phe Ser Tyr Thr Gly Asp Ser Gln Ala Gln Glu Leu
      180                     185                     190

Cys Leu Tyr Leu Thr Lys Ala Ala Ser Ala Pro Tyr Phe Glu Val Leu
      195                     200                     205

Glu Lys Trp Ile Tyr Arg Gly Ile Ile His Asp Pro Tyr Ser Glu Phe
      210                     215                     220

Met Val Glu Glu His Glu Leu Arg Lys Glu Arg Ile Gln Glu Asp Tyr
      225                     230                     235                     240

Asn Asp Lys Tyr Trp Asp Gln Arg Tyr Thr Ile Val Gln Gln Gln Ile
      245                     250                     255

Pro Ser Phe Leu Gln Lys Met Ala Asp Lys Ile Leu Ser Thr Gly Lys
      260                     265                     270

Tyr Leu Asn Val Val Arg Glu Cys Gly His Asp Val Thr Cys Pro Val
      275                     280                     285

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Ala Lys Glu Ile Ile Tyr Thr Leu Lys Glu Arg Ala Tyr Val Glu Gln
 290 295 300
 Ile Glu Lys Ala Phe Asn Tyr Ala Ser Lys Val Leu Leu Asp Phe Leu
 305 310 315 320
 Met Glu Glu Lys Glu Leu Val Ala His Leu Arg Ser Ile Lys Arg Tyr
 325 330 335
 Phe Leu Met Asp Gln Gly Asp Phe Phe Val His Phe Met Asp Leu Ala
 340 345 350
 Glu Glu Glu Leu Arg Lys Pro Val Glu Asp Ile Thr Pro Pro Arg Leu
 355 360 365
 Glu Ala Leu Leu Glu Leu Ala Leu Arg Met Ser Thr Ala Asn Thr Asp
 370 375 380
 Pro Phe Lys Asp Asp Leu Lys Ile Asp Leu Met Pro His Asp Leu Ile
 385 390 395 400
 Thr Gln Leu Leu Arg Val Leu Ala Ile Glu Thr Lys Gln Glu Lys Ala
 405 410 415
 Met Ala His Ala Xaa Pro Thr Glu Leu Ala Leu Ser Gly Leu Gly Gly
 420 425 430
 Xaa Leu Leu Ser Xaa Thr Ser Ser Ser Gly Pro Phe Arg Phe Ile His
 435 440 445
 Xaa Xaa Gly Ala Gly Ser Ala Ala Ser Gly Gln Leu
 450 455 460

<210> 585

<211> 277

<212> PRT

<213> Homo sapiens

<400> 585

Val Ile Leu Asp Gly Leu Leu Thr Trp Gly Gln Phe Lys Gln His Tyr
 1 5 10 15
 Asn Arg His Phe Gly Phe Leu Gly Asp Phe Ile Gly Gln Val Gln Ser
 20 25 30
 Arg Lys Cys Ile Glu Asp Val Ile His Phe Ala Trp Glu Glu Lys Leu
 35 40 45
 Phe Leu Leu Ala Asp Glu Val Tyr Gln Asp Asn Val Tyr Ser Pro Asp

50	55	60
Cys Arg Phe His Ser Phe Lys Lys Val Leu Tyr Glu Met Gly Pro Glu		
65	70	75 80
Tyr Ser Ser Asn Val Glu Leu Ala Ser Phe His Ser Thr Ser Lys Gly		
	85	90 95
Tyr Met Gly Glu Cys Gly Tyr Arg Gly Gly Tyr Met Glu Val Ile Asn		
	100	105 110
Leu His Pro Glu Ile Lys Gly Gln Leu Val Lys Leu Leu Ser Val Arg		
	115	120 125
Leu Cys Pro Pro Val Ser Gly Gln Ala Ala Met Asp Ile Val Val Asn		
	130	135 140
Pro Pro Val Ala Gly Glu Glu Ser Phe Glu Gln Phe Ser Arg Glu Lys		
	145	150 155 160
Glu Ser Val Leu Gly Asn Leu Ala Lys Lys Ala Lys Leu Thr Glu Asp		
	165	170 175
Leu Phe Asn Gln Val Pro Gly Ile His Cys Asn Pro Leu Gln Gly Ala		
	180	185 190
Met Tyr Ala Phe Pro Arg Ile Phe Ile Pro Ala Lys Ala Val Glu Ala		
	195	200 205
Ala Gln Ala His Gln Met Ala Pro Asp Met Phe Tyr Cys Met Lys Leu		
	210	215 220
Leu Glu Glu Thr Gly Ile Cys Val Val Pro Gly Ser Gly Phe Gly Gln		
	225	230 235 240
Arg Glu Gly Thr Tyr His Phe Arg Met Thr Ile Leu Pro Pro Val Glu		
	245	250 255
Lys Leu Lys Thr Val Leu Gln Lys Val Lys Asp Phe His Ile Asn Phe		
	260	265 270
Leu Glu Lys Tyr Ala		
	275	

<210> 586

<211> 259

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (199)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 586

Gln Arg Cys Phe Phe Leu Gln Thr Leu Leu Phe Leu Gln Ser Ser Ile
 1 5 10 15

Ile Ser Ala Met Ala Met Ala Ser Val Lys Leu Leu Ala Gly Val Leu
 20 25 30

Arg Lys Pro Asp Ala Trp Ile Gly Leu Trp Gly Val Leu Arg Gly Thr
 35 40 45

Pro Ser Ser Tyr Lys Leu Cys Thr Ser Trp Asn Arg Tyr Leu Tyr Phe
 50 55 60

Ser Ser Thr Lys Leu Arg Ala Pro Asn Tyr Lys Thr Leu Phe Tyr Asn
 65 70 75 80

Ile Phe Ser Leu Arg Leu Pro Gly Leu Leu Leu Ser Pro Glu Cys Ile
 85 90 95

Phe Pro Phe Ser Val Arg Leu Lys Ser Asn Ile Arg Ser Thr Lys Ser
 100 105 110

Thr Lys Lys Ser Leu Gln Lys Val Asp Glu Glu Asp Ser Asp Glu Glu
 115 120 125

Ser His His Asp Glu Met Ser Glu Gln Glu Glu Glu Leu Glu Asp Asp
 130 135 140

Pro Thr Val Val Lys Asn Tyr Lys Asp Leu Glu Lys Ala Val Gln Ser
 145 150 155 160

Phe Arg Tyr Asp Val Val Leu Lys Thr Gly Leu Asp Ile Gly Arg Asn
 165 170 175

Lys Val Glu Asp Ala Phe Tyr Lys Gly Glu Leu Arg Leu Asn Glu Glu
 180 185 190

Lys Leu Trp Lys Lys Ser Xaa Thr Val Lys Val Gly Asp Thr Leu Asp
 195 200 205

Leu Leu Ile Gly Glu Asp Lys Glu Ala Gly Thr Glu Thr Val Met Arg
 210 215 220

Ile Leu Leu Lys Lys Val Phe Glu Glu Lys Thr Glu Ser Glu Lys Tyr
 225 230 235 240

Arg Val Val Leu Arg Arg Trp Lys Ser Leu Lys Leu Pro Lys Lys Arg
 245 250 255

Met Ser Lys

<210> 587

<211> 360

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (315)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (325)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (326)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (327)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (339)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 587

Leu Asn Pro Gly Arg Pro Ala Arg Pro Val Leu Leu Arg Ser Xaa Ala
 1 5 10 15

Pro Pro Leu Glu Lys Met Phe Ser Met Arg Ile Val Cys Leu Val Leu
 20 25 30

Ser Val Val Gly Thr Ala Trp Thr Ala Asp Ser Gly Glu Gly Asp Phe

35	40	45																	
Leu	Ala	Glu	Gly	Gly	Gly	Val	Arg	Gly	Pro	Arg	Val	Val	Glu	Arg	His				
50						55					60								
Gln	Ser	Ala	Cys	Lys	Asp	Ser	Asp	Trp	Pro	Phe	Cys	Ser	Asp	Glu	Asp				
65					70					75				80					
Trp	Asn	Tyr	Lys	Cys	Pro	Ser	Gly	Cys	Arg	Met	Lys	Gly	Leu	Ile	Asp				
				85					90					95					
Glu	Val	Asn	Gln	Asp	Phe	Thr	Asn	Arg	Ile	Asn	Lys	Leu	Lys	Asn	Ser				
		100						105					110						
Leu	Phe	Glu	Tyr	Gln	Lys	Asn	Asn	Lys	Asp	Ser	His	Ser	Leu	Thr	Thr				
	115						120					125							
Asn	Ile	Met	Glu	Ile	Leu	Arg	Gly	Asp	Phe	Ser	Ser	Ala	Asn	Asn	Arg				
130						135					140								
Asp	Asn	Thr	Tyr	Asn	Arg	Val	Ser	Glu	Asp	Leu	Arg	Ser	Arg	Ile	Glu				
145					150					155				160					
Val	Leu	Lys	Arg	Lys	Val	Ile	Glu	Lys	Val	Gln	His	Ile	Gln	Leu	Leu				
				165					170				175						
Gln	Lys	Asn	Val	Arg	Ala	Gln	Leu	Val	Asp	Met	Lys	Arg	Leu	Glu	Val				
		180						185					190						
Asp	Ile	Asp	Ile	Lys	Ile	Arg	Ser	Cys	Arg	Gly	Ser	Cys	Ser	Arg	Ala				
	195						200					205							
Leu	Ala	Arg	Glu	Val	Asp	Leu	Lys	Asp	Tyr	Glu	Asp	Gln	Gln	Lys	Gln				
210						215					220								
Leu	Glu	Gln	Val	Ile	Ala	Lys	Asp	Leu	Leu	Pro	Ser	Arg	Asp	Arg	Gln				
225					230					235				240					
His	Leu	Pro	Leu	Ile	Lys	Met	Lys	Pro	Val	Pro	Asp	Leu	Val	Pro	Gly				
			245					250				255							
Asn	Phe	Lys	Ser	Gln	Leu	Gln	Lys	Val	Pro	Pro	Glu	Trp	Lys	Ala	Leu				
		260						265				270							
Thr	Asp	Met	Pro	Gln	Met	Arg	Met	Glu	Leu	Glu	Arg	Pro	Gly	Gly	Asn				
	275						280					285							
Glu	Ile	Thr	Arg	Gly	Gly	Ser	Thr	Ser	Tyr	Gly	Thr	Gly	Ser	Glu	Thr				
290						295					300								
Glu	Ser	Pro	Arg	Asn	Pro	Ser	Ser	Ala	Gly	Xaa	Trp	Asn	Ser	Gly	Ser				

305 310 315 320
 Ser Gly Thr Trp Xaa Xaa Xaa Asn Leu Glu Thr Trp Glu Leu Trp Thr
 325 330 335
 Trp Lys Xaa Trp Lys Leu Glu Leu Trp Glu Leu Trp Asn Trp Lys Tyr
 340 345 350
 Trp Lys Pro Lys Pro Trp Glu Pro
 355 360

<210> 588
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 588
 Arg Cys Leu Leu Glu Leu Gln Met His Ser Gly Leu Leu Pro Arg Pro
 1 5 10 15
 Glu Thr Phe Ser Leu Arg Lys Ala Leu Arg Thr Leu Asp Ser Leu Leu
 20 25 30
 Arg Leu Leu Ala Gln Leu His Thr Pro Ser Arg Thr Val Glu Gln Leu
 35 40 45
 Met Leu His Ala Ala Lys Leu Leu Tyr Phe Lys Gly Asn Arg Ser Ser
 50 55 60
 Thr Leu Leu His Pro Cys Phe His Thr Pro His Phe Thr Pro Leu Leu
 65 70 75 80
 Phe Ser Asp Pro Pro Leu Ala Leu
 85

<210> 589
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 589
 Ile Ala Ser Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met
 1 5 10 15
 Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala
 20 25 30

Val Val Leu Gln Arg Asp Trp Phe Glu Lys
 35 40

<210> 590
 <211> 35
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (15)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (21)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 590
 Thr Ala Ser Gly Ala Ala Asn Leu Ser Ile Ser Val Lys Cys Xaa Arg
 1 5 10 15

Ala Arg Thr Pro Xaa Thr Ser Leu Ala Thr Gly His Pro Glu Leu Gln
 20 25 30

Thr Trp Arg
 35

<210> 591
 <211> 227
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 591
 Xaa Ser Phe Phe Arg Tyr Arg Gln Cys Leu Cys Val Pro Val Val Ala
 1 5 10 15

Asn Phe Lys Lys Arg Cys Phe Ser Glu Leu Ile Arg Pro Trp His Lys
 20 25 30

Thr Val Thr Ile Gly Phe Gly Val Thr Leu Cys Ala Val Pro Ile Ala
 35 40 45

Gln Lys Ser Glu Pro His Ser Leu Ser Ser Glu Ala Leu Met Arg Arg
 50 55 60

Ala Val Ser Leu Val Thr Asp Ser Thr Ser Thr Phe Leu Ser Gln Thr
 65 70 75 80

Thr Tyr Ala Leu Ile Glu Ala Ile Thr Glu Tyr Thr Lys Ala Val Tyr
 85 90 95

Thr Leu Thr Ser Leu Tyr Arg Gln Tyr Thr Ser Leu Leu Gly Lys Met
 100 105 110

Asn Ser Glu Glu Glu Asp Glu Val Trp Gln Val Ile Ile Gly Ala Arg
 115 120 125

Ala Glu Met Thr Ser Lys His Gln Glu Tyr Leu Lys Leu Glu Thr Thr
 130 135 140

Trp Met Thr Ala Val Gly Leu Ser Glu Met Ala Ala Glu Ala Ala Tyr
 145 150 155 160

Gln Thr Gly Ala Asp Gln Ala Ser Ile Thr Ala Arg Asn His Ile Gln
 165 170 175

Leu Val Lys Leu Gln Val Glu Glu Val His Gln Leu Ser Arg Lys Ala
 180 185 190

Glu Thr Lys Leu Ala Glu Ala Gln Ile Glu Glu Leu Arg Gln Lys Thr
 195 200 205

Gln Glu Glu Gly Glu Glu Arg Ala Glu Ser Glu Gln Glu Ala Tyr Leu
 210 215 220

Arg Glu Asp
 225

<210> 592

<211> 178

<212> PRT

<213> Homo sapiens

<400> 592

Arg Gln Arg Lys Ile Gln Lys Asp Arg Leu Val Ala Glu Phe Thr Thr
 1 5 10 15

Ser Leu Thr Asn Phe Gln Lys Val Gln Arg Gln Ala Ala Glu Arg Glu
 20 25 30

Lys Glu Phe Val Ala Arg Val Arg Ala Ser Ser Arg Val Ser Gly Ser
35 40 45

Phe Pro Glu Asp Ser Ser Lys Glu Arg Asn Leu Val Ser Trp Glu Ser
50 55 60

Gln Thr Gln Pro Gln Val Gln Val Gln Asp Glu Glu Ile Thr Glu Asp
65 70 75 80

Asp Leu Arg Leu Ile His Glu Arg Glu Ser Ser Ile Arg Gln Leu Glu
85 90 95

Ala Asp Ile Met Asp Ile Asn Glu Ile Phe Lys Asp Leu Gly Met Met
100 105 110

Ile His Glu Gln Gly Asp Val Ile Asp Ser Ile Glu Ala Asn Val Glu
115 120 125

Asn Ala Glu Val His Val Gln Gln Ala Asn Gln Gln Leu Ser Arg Ala
130 135 140

Ala Asp Tyr Gln Arg Lys Ser Arg Lys Thr Leu Cys Ile Ile Ile Leu
145 150 155 160

Ile Leu Val Ile Gly Val Ala Ile Ile Ser Leu Ile Ile Trp Gly Leu
165 170 175

Asn His

<210> 593

<211> 94

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 593

Met Ala Thr Ser Thr Ser Thr Glu Ala Lys Ser Ala Ser Xaa Trp Asn
1 5 10 15

Tyr Phe Phe Leu Tyr Asp Gly Ser Lys Val Lys Glu Glu Gly Asp Pro
20 25 30

Thr Arg Ala Gly Ile Cys Tyr Phe Tyr Pro Ser Gln Thr Leu Leu Asp
35 40 45

Gln Gln Glu Leu Leu Cys Gly Gln Ile Ala Gly Val Val Arg Cys Val
 50 55 60

Ser Asp Ile Ser Asp Ser Pro Pro Thr Leu Val Arg Leu Arg Lys Leu
 65 70 75 80

Lys Phe Ala Ile Lys Val Asp Gly Asp Tyr Leu Trp Val Ser
 85 90

<210> 594

<211> 132

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 594

Thr Asn Arg Ala Gly Ile Cys Leu Leu Asp Leu Ser Cys Gly Val Pro
 1 5 10 15

Leu Leu Leu Gly Glu Ser Leu Gly Ile Lys Asn Asn His Gln Pro Gly
 20 25 30

Lys Leu Leu Cys Phe Leu Ala Asp Val Ile Pro His Trp Tyr Arg Cys
 35 40 45

Tyr Ser Val Leu Gly Gly Ser Ala Gly Lys Pro Gly Gly Thr Ser Val
 50 55 60

Ser Val Met Lys Pro Leu Thr Ala Phe Leu Thr Glu Glu Pro Ser Val
 65 70 75 80

Ile Tyr Trp Gly Arg Ser Ser Val Glu Leu Ser Ala Leu Xaa Arg Lys
 85 90 95

His Val Glu Glu Gly Arg Arg Arg Phe Pro Cys Trp Ala Cys Phe Val
 100 105 110

Glu Gly Gln Glu Gln Gln Val Met Cys Thr Cys Arg Cys Ser Thr Ser
 115 120 125

Leu Cys Phe Pro
 130

<210> 595
<211> 97
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 595
Ser His Phe Tyr Cys Asn Ser Phe Ser Phe Ser Arg Ala Gln Ile Asp
1 5 10 15
Gln Ala Ala Val Pro Tyr Ser Ala Gly Gln Asp Tyr Ser Ser Ile Pro
20 25 30
Ala Ser Ser Thr Gln Xaa Arg Val Trp Gly Gly Leu Phe Cys Ala Cys
35 40 45
Ser Pro His Leu Thr Leu Gly Cys His His Leu Trp Arg Leu Leu Phe
50 55 60
Gly Met Met Leu Pro Leu Ala Phe Ser Cys Tyr His Gly Leu Gly Arg
65 70 75 80
Lys His Gly Phe Gln Ile Ile Trp Glu Leu Leu Ala Met Val Pro Pro
85 90 95

Ser

<210> 596
<211> 510
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (299)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 596

Tyr Ser Ser Ser Ser Glu Glu Val Glu Ser Ser Glu Asp Asp Glu Glu
 1 5 10 15

Glu Gly Glu Gly Gly Pro Ala Glu Gly Ser Arg Asp Thr Xaa Gly Gly
 20 25 30

Arg Ser Asp Gly Asp Thr Asp Ser Val Thr Pro Trp Trp Ser Thr Thr
 35 40 45

Ser Arg Arg Ser Pro Gly Pro Ser Pro His Thr Gly Arg Xaa Pro Trp
 50 55 60

Trp Ser Ser Ala Pro Leu Lys Arg Ser Gly Thr Cys Cys Met Leu Thr
 65 70 75 80

Ala Met Gly Thr Gln Thr Cys Leu Thr Trp Ser Ser Pro Ala Thr His
 85 90 95

Pro Pro Arg Thr Ala Lys Ala Lys Ala His Pro Arg Arg Met Gly Val
 100 105 110

Val Asp Tyr Gln Xaa Arg Gly Leu Val Lys Ala Pro Gly Lys Ser Ser
 115 120 125

Phe Thr Met Phe Val Asp Leu Gly Ile Tyr Gln Pro Gly Gly Ser Gly
 130 135 140

Asp Ser Ile Pro Ile Thr Ala Leu Val Gly Gly Glu Gly Thr Arg Phe
 145 150 155 160

Asp Gln Leu Gln Tyr Asp Val Arg Lys Gly Ser Val Val Asn Val Asn
 165 170 175

Pro Thr Asn Thr Arg Ala His Ser Glu Thr Pro Glu Ile Arg Lys Tyr
 180 185 190

Lys Lys Arg Phe Asn Ser Glu Ile Leu Cys Ala Ala Leu Trp Gly Val
 195 200 205

Asn Leu Leu Val Gly Thr Glu Asn Gly Leu Met Leu Leu Asp Arg Ser
 210 215 220

Gly	Gln	Gly	Lys	Val	Tyr	Gly	Leu	Ile	Gly	Arg	Arg	Arg	Phe	Gln	Gln	225	230	235	240
Met	Asp	Val	Leu	Glu	Gly	Leu	Asn	Leu	Leu	Ile	Thr	Ile	Ser	Gly	Lys	245	250	255	
Arg	Asn	Lys	Leu	Arg	Val	Tyr	Tyr	Leu	Ser	Trp	Leu	Arg	Asn	Lys	Ile	260	265	270	
Leu	His	Asn	Asp	Pro	Glu	Val	Glu	Lys	Lys	Gln	Gly	Trp	Thr	Thr	Val	275	280	285	
Gly	Asp	Met	Glu	Gly	Cys	Gly	His	Tyr	Arg	Xaa	Val	Lys	Tyr	Glu	Arg	290	295	300	
Ile	Lys	Phe	Leu	Val	Ile	Ala	Leu	Lys	Ser	Ser	Val	Glu	Val	Tyr	Ala	305	310	315	320
Trp	Ala	Pro	Lys	Pro	Tyr	His	Lys	Phe	Met	Ala	Phe	Lys	Ser	Phe	Ala	325	330	335	
Asp	Leu	Pro	His	Arg	Pro	Leu	Leu	Val	Asp	Leu	Thr	Val	Glu	Glu	Gly	340	345	350	
Gln	Arg	Leu	Lys	Val	Ile	Tyr	Gly	Ser	Ser	Ala	Gly	Phe	His	Ala	Val	355	360	365	
Asp	Val	Asp	Ser	Gly	Asn	Ser	Tyr	Asp	Ile	Tyr	Ile	Pro	Val	His	Ile	370	375	380	
Gln	Ser	Gln	Ile	Thr	Pro	His	Ala	Ile	Ile	Phe	Leu	Pro	Asn	Thr	Asp	385	390	395	400
Gly	Met	Glu	Met	Leu	Leu	Cys	Tyr	Glu	Asp	Glu	Gly	Val	Tyr	Val	Asn	405	410	415	
Thr	Tyr	Gly	Arg	Ile	Ile	Lys	Asp	Val	Val	Leu	Gln	Trp	Gly	Glu	Met	420	425	430	
Pro	Thr	Ser	Val	Ala	Tyr	Ile	Cys	Ser	Asn	Gln	Ile	Met	Gly	Trp	Gly	435	440	445	
Glu	Lys	Ala	Ile	Glu	Ile	Arg	Ser	Val	Glu	Thr	Gly	His	Leu	Asp	Gly	450	455	460	
Val	Phe	Met	His	Lys	Arg	Ala	Gln	Arg	Leu	Lys	Phe	Leu	Cys	Glu	Arg	465	470	475	480
Asn	Asp	Lys	Val	Phe	Phe	Ala	Ser	Val	Arg	Ser	Gly	Gly	Ser	Ser	Gln	485	490	495	

His Leu Ala Leu Phe Asp Ser Gly His Phe
85 90

<400> 598
Gly Thr Arg Ala Pro Arg Val Gln Leu Ala Arg Ser Gly Gly Arg Pro
1 5 10 15

538

Pro Arg Thr Pro Arg Pro Pro Gly Pro Pro Gly Glu Val Ile Gln Pro
 20 25 30
 Leu Pro Ile Gln Ala Ser Arg Thr Arg Arg Asn Ile Asp Ala Ser Gln
 35 40 45
 Leu Leu Asp Asp Gly Asn Gly Glu Asn Tyr Val Asp Tyr Ala Asp Gly
 50 55 60
 Met Glu Glu Ile Phe Gly Ser Leu Asn Ser Leu Lys Leu Glu Ile Glu
 65 70 75 80
 Gln Met Lys Arg Pro Leu Gly Thr Gln Gln Asn Pro Ala Arg Thr Cys
 85 90 95
 Lys Asp Leu Gln Leu Cys His Pro Asp Phe Pro Asp Gly Glu Tyr Trp
 100 105 110
 Val Asp Pro Asn Gln Gly Cys Ser Arg Asp Ser Phe Lys Val Tyr Cys
 115 120 125
 Asn Phe Thr Ala Gly Gly Ser Thr Cys Val Phe Pro Asp Lys Lys Ser
 130 135 140
 Glu Gly Pro Glu Ser Leu Leu Gly Pro Lys Lys Thr Arg Ala Pro Gly
 145 150 155 160
 Ser Val Asn Ser Ser Val Gly Asn Cys Ser Pro Met Trp Thr Pro Arg
 165 170 175
 Ala Thr Leu Trp Val Trp Tyr Arg
 180

<210> 599

<211> 104

<212> PRT

<213> Homo sapiens

<400> 599

Gly Arg Gly Ser Ala Lys Lys Arg Pro Leu Pro Leu Val Gly Ile Gly
 1 5 10 15
 Met Ser Lys Asn Thr Val Ser Ser Ala Arg Phe Arg Lys Val Asp Val
 20 25 30
 Asp Glu Tyr Asp Glu Asn Lys Phe Val Asp Glu Glu Asp Gly Gly Asp
 35 40 45
 Gly Gln Ala Gly Pro Asp Glu Gly Glu Val Asp Ser Cys Leu Arg Gln

539

50 55 60
 Tyr Pro Cys Ile His Arg Pro Pro His Pro Ser Pro Ala Gln Pro Ala
 65 70 75 80
 Leu Leu Leu Gly Pro Gly Ser Leu Gln Asp Pro Arg Gly Thr Gly Ala
 85 90 95
 Glu Leu Pro Ser Gln Pro Ala Ala
 100

<210> 600

<211> 122

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 600

Thr Glu Phe Lys Lys Leu Ser Lys Gly Lys Ser Leu Leu Gly Ala Phe
 1 5 10 15
 Ile Pro Arg Cys Asn Xaa Glu Gly Tyr Tyr Lys Ala Thr Gln Cys His
 20 25 30
 Gly Ser Thr Gly Gln Cys Trp Cys Val Asp Lys Tyr Gly Asn Glu Leu
 35 40 45
 Ala Gly Ser Arg Lys Gln Gly Ala Val Ser Cys Glu Glu Glu Gln Glu
 50 55 60
 Thr Ser Gly Asp Phe Gly Ser Gly Gly Ser Val Val Leu Leu Asp Asp
 65 70 75 80
 Leu Glu Tyr Glu Arg Glu Leu Gly Pro Lys Asp Lys Glu Gly Lys Leu
 85 90 95
 Arg Val His Thr Arg Ala Val Thr Glu Asp Asp Glu Asp Glu Asp Asp
 100 105 110
 Asp Lys Glu Asp Glu Val Gly Tyr Ile Trp
 115 120

<210> 601

<211> 306

<212> PRT

<213> Homo sapiens

<400> 601

Ala	Cys	Pro	Arg	Pro	Thr	Ala	Arg	Trp	Gln	Leu	Arg	Phe	Trp	Thr	His
1				5					10					15	
Gly	Tyr	Gly	Tyr	Arg	Arg	Ser	Gly	Arg	Asp	Lys	Tyr	Gly	Pro	Pro	Thr
			20					25					30		
Arg	Thr	Glu	Tyr	Arg	Leu	Ile	Val	Glu	Asn	Leu	Ser	Ser	Arg	Cys	Ser
		35					40					45			
Trp	Gln	Asp	Leu	Lys	Asp	Tyr	Met	Arg	Gln	Ala	Gly	Glu	Val	Thr	Tyr
		50				55					60				
Ala	Asp	Ala	His	Lys	Gly	Arg	Lys	Asn	Glu	Gly	Val	Ile	Glu	Phe	Val
65					70					75					80
Ser	Tyr	Ser	Asp	Met	Lys	Arg	Ala	Leu	Glu	Lys	Leu	Asp	Gly	Thr	Glu
				85					90					95	
Val	Asn	Gly	Arg	Lys	Ile	Arg	Leu	Val	Glu	Asp	Lys	Pro	Gly	Ser	Arg
			100					105					110		
Arg	Arg	Arg	Ser	Tyr	Ser	Arg	Ser	Arg	Ser	His	Ser	Arg	Ser	Arg	Ser
			115				120					125			
Arg	Ser	Arg	His	Ser	Arg	Lys	Ser	Arg	Ser	Arg	Ser	Gly	Ser	Ser	Lys
		130				135					140				
Ser	Ser	His	Ser	Lys	Ser	Arg	Ser	Arg	Ser	Arg	Ser	Gly	Ser	Arg	Ser
145				150					155					160	
Arg	Ser	Lys	Ser	Arg	Ser	Arg	Ser	Gln	Ser	Arg	Ser	Arg	Ser	Lys	Lys
			165					170						175	
Glu	Lys	Ser	Arg	Ser	Pro	Ser	Lys	Asp	Lys	Ser	Arg	Ser	Arg	Ser	His
			180					185					190		
Ser	Ala	Gly	Lys	Ser	Arg	Ser	Lys	Ser	Lys	Asp	Gln	Ala	Glu	Glu	Lys
		195					200					205			
Ile	Gln	Asn	Asn	Asp	Asn	Val	Gly	Lys	Pro	Lys	Ser	Arg	Ser	Pro	Ser
	210					215					220				
Arg	His	Lys	Ser	Lys	Ser	Lys	Ser	Arg	Ser	Arg	Ser	Gln	Glu	Arg	Arg
225				230						235				240	
Val	Glu	Glu	Glu	Lys	Arg	Gly	Ser	Val	Ser	Arg	Gly	Arg	Ser	Gln	Glu

245 250 255
 Lys Ser Leu Arg Gln Ser Arg Ser Arg Ser Arg Ser Lys Ala Gly Gln
 260 265 270
 Gln Glu Pro Glu Gln Glu Pro Gln Gln Glu Gln Gly Gln Glu Glu Glu
 275 280 285
 Gln Glu Glu Lys Gln Arg Gly Glu Pro Gln Ser Gln Ser Gln Pro Gln
 290 295 300
 Gln Glu
 305

<210> 602
 <211> 166
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (9)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (56)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (166)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 602
 Arg Thr Ile Leu Gly Lys Cys Met Xaa Gln Thr Asn Ser Thr Phe Thr
 1 5 10 15
 Phe Thr Thr Cys Arg Ile Leu His Pro Ser Asp Glu Leu Thr Arg Val
 20 25 30
 Thr Pro Ser Leu Asn Ser Ala Pro Thr Pro Ala Cys Gly Ser Thr Ser
 35 40 45
 His Leu Lys Ser Thr Pro Val Xaa Thr Pro Cys Thr Pro Arg Arg Leu
 50 55 60
 Ser Leu Ala Glu Ser Phe Thr Asn Thr Arg Glu Ser Thr Thr Thr Met
 65 70 75 80

Ser Thr Ser Leu Gly Leu Val Trp Leu Leu Lys Glu Arg Gly Ile Ser
 85 90 95
 Ala Ala Val Tyr Asp Pro Gln Ser Trp Asp Arg Ala Gly Arg Gly Ser
 100 105 110
 Leu Leu His Ser Tyr Thr Pro Lys Met Ala Val Ile Pro Ser Thr Pro
 115 120 125
 Pro Asn Ser Pro Met Gln Thr Pro Thr Ser Ser Pro Pro Ser Phe Glu
 130 135 140
 Phe Lys Cys Thr Ser Pro Pro Tyr Asp Asn Phe Leu Ala Ser Lys Pro
 145 150 155 160
 Arg Arg Leu His Pro Xaa
 165

<210> 603

<211> 128

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 603

Pro Pro Ala Arg Ala Pro Glu Cys Ser Pro Ser Gly Ser Leu Leu Gly
 1 5 10 15

Ser Pro Leu Trp Arg Pro Cys Pro Arg Val Leu Leu Pro Arg Gly Leu
 20 25 30

Leu Cys Ile Arg Arg Leu Arg Leu Gln Gly Tyr Pro Ala Arg Leu Pro
 35 40 45

Ser Pro Arg Ala Glu Phe Ala Leu Leu Pro Glu Ser Phe Glu Arg Arg
 50 55 60

Thr Asn Phe Trp Gln Asp Gly Asn Leu Asp Glu Pro Val Arg Ser Arg
 65 70 75 80

Thr Pro Leu Ile Ser Gln Ala Xaa Arg His Pro His Leu Leu Gly Lys
 85 90 95

Glu Gly Arg Gln Leu Val Pro Asp Leu Gly Glu Gln Leu Gln Thr Ala

	100		105		110
Cys	Leu	Glu	Gln	Pro	Pro
	115			Tyr	Ser
				Ser	Leu
				Ala	Gly
					Lys
					Glu
					Gly
					Thr
					125

<210> 604

<211> 595

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (551)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 604

Gly	His	Glu	Asn	Trp	Leu	Ser	Pro	Thr	Trp	Tyr	Cys	Ser	Gly	Val	Ala
1					5				10					15	

Gly	Xaa	Gln	Ala	Ala	Thr	Gly	Phe	Xaa	Val	Asp	Pro	Val	Ser	Asn	Leu
			20					25					30		

Arg	Leu	Pro	Val	Glu	Glu	Ala	Tyr	Lys	Arg	Gly	Leu	Val	Xaa	Ile	Glu
	35							40					45		

Phe	Lys	Glu	Lys	Leu	Leu	Ser	Ala	Xaa	Arg	Ala	Val	Thr	Gly	Tyr	Asn
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

50	55	60
Asp Pro Glu Thr Gly Asn Ile Ile Ser Leu Phe Gln Ala Met Asn Lys		
65	70	75 80
Glu Leu Ile Glu Lys Gly His Gly Ile Arg Leu Leu Glu Ala Gln Ile		
	85	90 95
Ala Thr Gly Gly Ile Ile Asp Pro Lys Glu Ser His Arg Leu Pro Val		
	100	105 110
Asp Ile Ala Tyr Lys Arg Gly Tyr Phe Asn Glu Glu Leu Ser Glu Ile		
	115	120 125
Leu Ser Asp Pro Ser Asp Asp Thr Lys Gly Phe Phe Asp Pro Asn Thr		
	130	135 140
Glu Glu Asn Leu Thr Tyr Leu Gln Leu Lys Glu Arg Cys Ile Lys Asp		
145	150	155 160
Glu Glu Thr Gly Leu Cys Leu Leu Pro Leu Lys Glu Lys Lys Lys Gln		
	165	170 175
Val Gln Thr Ser Gln Lys Asn Thr Leu Arg Lys Arg Arg Val Val Ile		
	180	185 190
Val Asp Pro Glu Thr Asn Lys Glu Met Ser Val Gln Glu Ala Tyr Lys		
	195	200 205
Lys Gly Leu Ile Asp Tyr Glu Thr Phe Lys Glu Leu Cys Glu Gln Glu		
	210	215 220
Cys Glu Trp Glu Glu Ile Thr Ile Thr Gly Ser Asp Gly Ser Thr Arg		
225	230	235 240
Val Val Leu Val Asp Arg Lys Thr Gly Ser Gln Tyr Asp Ile Gln Asp		
	245	250 255
Ala Ile Asp Lys Gly Leu Val Asp Arg Lys Phe Phe Asp Gln Tyr Arg		
	260	265 270
Ser Gly Ser Leu Ser Leu Thr Gln Phe Ala Asp Met Ile Ser Leu Lys		
	275	280 285
Asn Gly Val Gly Thr Ser Ser Ser Met Gly Ser Gly Val Ser Asp Asp		
	290	295 300
Val Phe Ser Ser Ser Arg His Glu Ser Val Ser Lys Ile Ser Thr Ile		
305	310	315 320
Ser Ser Val Arg Asn Leu Thr Ile Arg Ser Ser Ser Phe Ser Asp Thr		

545

	325		330		335
Leu Glu Glu Ser Ser Pro Ile Ala Ala Ile Phe Asp Thr Glu Asn Leu					
	340		345		350
Glu Lys Ile Ser Ile Thr Glu Gly Ile Glu Arg Gly Ile Val Asp Ser					
	355		360		365
Ile Thr Gly Gln Arg Leu Leu Glu Ala Gln Ala Cys Thr Gly Gly Ile					
	370		375		380
Ile His Pro Thr Thr Gly Gln Lys Leu Ser Leu Gln Asp Ala Val Ser					
	385		390		395
Gln Gly Val Ile Asp Gln Asp Met Ala Thr Arg Leu Lys Pro Ala Gln					
		405		410	415
Lys Ala Phe Ile Gly Phe Glu Gly Val Lys Gly Lys Lys Lys Met Ser					
	420		425		430
Ala Ala Glu Ala Val Lys Glu Lys Trp Leu Pro Tyr Glu Ala Gly Gln					
	435		440		445
Arg Phe Leu Glu Phe Gln Tyr Leu Thr Gly Gly Leu Val Asp Pro Glu					
	450		455		460
Val His Gly Arg Ile Ser Thr Glu Glu Ala Ile Arg Lys Gly Phe Ile					
	465		470		475
Asp Gly Arg Ala Ala Gln Arg Leu Gln Asp Thr Ser Ser Tyr Ala Lys					
		485		490	495
Ile Leu Thr Cys Pro Lys Thr Lys Leu Lys Ile Ser Tyr Lys Asp Ala					
	500		505		510
Ile Asn Arg Ser Met Val Glu Asp Ile Thr Gly Leu Arg Leu Leu Glu					
	515		520		525
Ala Ala Ser Val Ser Ser Lys Gly Leu Pro Ser Pro Tyr Asn Met Ser					
	530		535		540
Ser Ala Pro Gly Ser Arg Xaa Gly Ser Arg Ser Gly Ser Arg Ser Gly					
	545		550		555
Ser Arg Ser Gly Ser Arg Ser Gly Ser Arg Arg Gly Ser Phe Asp Ala					
	565		570		575
Thr Gly Asn Ser Ser Tyr Ser Tyr Ser Tyr Ser Phe Ser Ser Ser Ser					
	580		585		590
Ile Gly His					

546

595

<210> 605

<211> 212

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 605

Ala Pro Thr Val Ser Leu Val Trp Gln Val Phe Tyr Tyr Ser Thr Ser
 1 5 10 15

Ile Phe Glu Lys Ala Gly Val Gln Gln Pro Val Tyr Ala Thr Ile Gly
 20 25 30

Ser Gly Ile Val Asn Thr Ala Phe Thr Val Val Ser Leu Phe Val Val
 35 40 45

Glu Arg Ala Gly Arg Arg Thr Leu His Leu Ile Gly Leu Ala Gly Met
 50 55 60

Ala Gly Cys Ala Ile Leu Met Thr Ile Ala Leu Xaa Leu Leu Glu Gln
 65 70 75 80

Leu Pro Trp Met Ser Tyr Leu Ser Ile Val Ala Ile Phe Gly Phe Val
 85 90 95

Ala Phe Phe Glu Val Gly Pro Gly Pro Ile Pro Trp Phe Ile Val Ala
 100 105 110

Glu Leu Phe Ser Gln Gly Pro Arg Pro Ala Ala Ile Ala Val Ala Gly
 115 120 125

Phe Ser Asn Trp Thr Ser Asn Phe Ile Val Gly Met Cys Phe Gln Tyr
 130 135 140

Val Glu Gln Leu Cys Gly Pro Tyr Val Phe Ile Ile Phe Thr Val Leu
 145 150 155 160

Leu Val Leu Phe Phe Ile Phe Thr Tyr Phe Lys Val Pro Glu Thr Lys
 165 170 175

Gly Arg Thr Phe Asp Glu Ile Ala Ser Gly Phe Arg Gln Gly Gly Ala
 180 185 190

Ser Gln Ser Asp Lys Thr Pro Glu Glu Leu Phe His Pro Leu Gly Ala
195 200 205

Asp Ser Gln Val
210

<210> 606
<211> 83
<212> PRT
<213> Homo sapiens

<400> 606
Asn Gln Glu Leu Thr Phe Pro Gly Cys Arg Val Ser Ile Pro Pro Phe
1 5 10 15
Leu Met Thr Ser Arg Met Phe Leu Thr Arg Lys Pro Thr Thr Phe Pro
20 25 30
Glu Ser Pro Ser Ser Trp Trp Val Glu Lys Cys Ser Pro Arg Cys Ala
35 40 45
Trp Phe Pro Ser His Val Pro Val Phe Lys Asp Ser Phe Thr Leu Val
50 55 60
Ser Glu Leu Lys Cys Cys Leu Leu Lys Gly Phe Gln Glu Arg Leu Cys
65 70 75 80
Lys Gly Leu

<210> 607
<211> 136
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (114)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 607
Ala Ala Gly Leu Val Ala Val Leu Ala Thr Val Ser Tyr Leu Pro Val

1 5 10 15
 Pro Leu Tyr Leu Gly Asp Pro Ser Xaa Cys Thr Leu Leu Thr Asn Gly
 20 25 30
 Trp Ser Ala Gly Glu Lys Ser Leu Cys Arg Pro Pro Ser Lys Pro Ser
 35 40 45
 Val Cys Ala His Gly Ile Ser Lys Met Gly His Cys Cys Val Gln Asn
 50 55 60
 Pro Gly Ser Ser Phe Cys Leu Gln Leu Leu Ser Leu Asp Ala Pro Glu
 65 70 75 80
 Thr Ile Gln Ala Ser Phe Pro Ile Leu Pro Leu Cys Phe Ala Phe Tyr
 85 90 95
 Pro Ser Thr Ser Ile Thr Ala Phe Ser Ser Phe Gln Asn Ser Leu Phe
 100 105 110
 Leu Xaa Leu Phe Phe Met Ile Thr Lys Leu Leu Leu Pro Pro Trp Lys
 115 120 125
 Ile Thr Ala Ile Asp Ala Cys Met
 130 135

<210> 608

<211> 378

<212> PRT

<213> Homo sapiens

<400> 608

Arg Arg Tyr Ser Ala Asp Ser Val Trp Ile Asp Trp Lys Gly Leu Arg
 1 5 10 15
 Glu Tyr Leu Gly Ser Met Val Ala His Asp Glu Thr Gly Gly Leu Leu
 20 25 30
 Pro Ile Lys Arg Thr Ile Arg Val Leu Asp Val Asn Asn Gln Ser Phe
 35 40 45
 Arg Glu Gln Glu Glu Pro Ser Asn Lys Arg Val Arg Pro Leu Ala Arg
 50 55 60
 Val Thr Ser Leu Ala Asn Leu Ile Ser Pro Val Arg Asn Gly Ala Val
 65 70 75 80
 Arg Arg Phe Gly Gln Thr Ile Gln Ser Phe Thr Leu Arg Gly Asp His
 85 90 95

Arg Ser Pro Ala Ser Ala Gln Lys Phe Ser Ser Arg Ser Thr Val Pro
 100 105 110
 Thr Pro Ala Lys Arg Arg Ser Ser Ala Leu Trp Ser Glu Met Leu Asp
 115 120 125
 Ile Thr Met Lys Glu Ser Leu Thr Thr Arg Glu Ile Arg Arg Gln Glu
 130 135 140
 Ala Ile Tyr Glu Met Ser Arg Gly Glu Gln Asp Leu Ile Glu Asp Leu
 145 150 155 160
 Lys Leu Ala Arg Lys Ala Tyr His Asp Pro Met Leu Lys Leu Ser Ile
 165 170 175
 Met Ser Glu Glu Glu Leu Thr His Ile Phe Gly Asp Leu Asp Ser Tyr
 180 185 190
 Ile Pro Leu His Glu Asp Leu Leu Thr Arg Ile Gly Glu Ala Thr Lys
 195 200 205
 Pro Asp Gly Thr Val Glu Gln Ile Gly His Ile Leu Val Ser Trp Leu
 210 215 220
 Pro Arg Leu Asn Ala Tyr Arg Gly Tyr Cys Ser Asn Gln Leu Ala Ala
 225 230 235 240
 Lys Ala Leu Leu Asp Gln Lys Lys Gln Asp Pro Arg Val Gln Asp Phe
 245 250 255
 Leu Gln Arg Cys Leu Glu Ser Pro Phe Ser Arg Lys Leu Asp Leu Trp
 260 265 270
 Ser Phe Leu Asp Ile Pro Arg Ser Arg Leu Val Lys Tyr Pro Leu Leu
 275 280 285
 Leu Lys Glu Ile Leu Lys His Thr Pro Lys Glu His Pro Asp Val Gln
 290 295 300
 Leu Leu Glu Asp Ala Ile Leu Ile Ile Gln Gly Val Leu Ser Asp Ile
 305 310 315 320
 Asn Leu Lys Lys Gly Glu Ser Glu Cys Gln Tyr Tyr Ile Asp Lys Leu
 325 330 335
 Glu Tyr Leu Asp Glu Lys Gln Arg Asp Pro Arg Ile Glu Ala Ser Lys
 340 345 350
 Val Leu Leu Cys His Gly Glu Leu Arg Thr Arg Val Asp Ile Asn Phe
 355 360 365

550

Thr Phe Ser Cys Phe Lys Thr Ser Trp Phe
370 375

<210> 609
<211> 501
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 609
Pro Pro Gln Pro Gln Leu Leu Pro Gln Arg Lys Lys Lys Lys Val Lys
1 5 10 15

Met Ser Leu Arg Phe Trp Lys Ser Arg Pro Val Gly Xaa Xaa Gln Lys
20 25 30

Arg Arg Glu Glu Val Asn Gln Arg Asn Val Pro Gly Ile Asp Ser Ala
35 40 45

Tyr Leu Ala Met Asp Thr Glu Glu Gly Val Glu Val Val Trp Asn Glu
50 55 60

Val Gln Phe Ser Glu Arg Lys Asn Tyr Lys Leu Gln Glu Glu Lys Val
65 70 75 80

Arg Ala Val Phe Asp Asn Leu Ile Gln Leu Glu His Leu Asn Ile Val
85 90 95

Lys Phe His Lys Tyr Trp Ala Asp Ile Lys Glu Asn Lys Ala Arg Val
100 105 110

Ile Phe Ile Thr Glu Tyr Met Ser Ser Gly Ser Leu Lys Gln Phe Leu
115 120 125

Lys Lys Thr Lys Lys Asn His Lys Thr Met Asn Glu Lys Ala Trp Lys
130 135 140

Arg Trp Cys Thr Gln Ile Leu Ser Ala Leu Ser Tyr Leu His Ser Cys
145 150 155 160

Asp Pro Pro Ile Ile His Gly Asn Leu Thr Cys Asp Thr Ile Phe Ile
 165 170 175
 Gln His Asn Gly Leu Ile Lys Ile Gly Ser Val Ala Pro Asp Thr Ile
 180 185 190
 Asn Asn His Val Lys Thr Cys Arg Glu Glu Gln Lys Asn Leu His Phe
 195 200 205
 Phe Ala Pro Glu Tyr Gly Glu Val Thr Asn Val Thr Thr Ala Val Asp
 210 215 220
 Ile Tyr Ser Phe Gly Met Cys Ala Leu Glu Met Ala Val Leu Glu Ile
 225 230 235 240
 Gln Gly Asn Gly Glu Ser Ser Tyr Val Pro Gln Glu Ala Ile Ser Ser
 245 250 255
 Ala Ile Gln Leu Leu Glu Asp Pro Leu Gln Arg Glu Phe Ile Gln Lys
 260 265 270
 Cys Leu Gln Ser Glu Pro Ala Arg Arg Pro Thr Ala Arg Glu Leu Leu
 275 280 285
 Phe His Pro Ala Leu Phe Glu Val Pro Ser Leu Lys Leu Leu Ala Ala
 290 295 300
 His Cys Ile Val Gly His Gln His Met Ile Pro Glu Asn Ala Leu Glu
 305 310 315 320
 Glu Ile Thr Lys Asn Met Asp Thr Ser Ala Val Leu Ala Glu Ile Pro
 325 330 335
 Ala Gly Pro Gly Arg Glu Pro Val Gln Thr Leu Tyr Ser Gln Ser Pro
 340 345 350
 Ala Leu Glu Leu Asp Lys Phe Leu Glu Asp Val Arg Asn Gly Ile Tyr
 355 360 365
 Pro Leu Thr Ala Phe Gly Leu Pro Arg Pro Gln Gln Pro Gln Gln Glu
 370 375 380
 Glu Val Thr Ser Pro Val Val Pro Pro Ser Val Lys Thr Pro Thr Pro
 385 390 395 400
 Glu Pro Ala Glu Val Glu Thr Arg Lys Val Val Leu Met Gln Cys Asn
 405 410 415
 Ile Glu Ser Val Glu Glu Gly Val Lys His His Leu Thr Leu Leu Leu
 420 425 430

Lys Leu Glu Asp Lys Leu Asn Arg His Leu Ser Cys Asp Leu Met Pro
 435 440 445
 Asn Glu Asn Ile Pro Glu Leu Ala Ala Glu Leu Val Gln Leu Gly Phe
 450 455 460
 Ile Ser Glu Ala Asp Gln Ser Arg Leu Thr Ser Leu Leu Glu Glu Thr
 465 470 475 480
 Leu Asn Lys Phe Asn Phe Ala Arg Asn Ser Thr Leu Asn Ser Ala Ala
 485 490 495
 Val Thr Val Ser Ser
 500

<210> 610
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 610
 Gly Arg Val Gly Phe Ile Ile Leu Ser Trp His Ser Ser Lys Arg Thr
 1 5 10 15
 Leu Arg Trp Glu Leu Trp Gly Thr Gly Arg Arg Gly Gln Leu Gly Thr
 20 25 30
 Gly Pro Val Gly Val Ala Val Trp Gly Met Gly Val Cys Ser Leu Ala
 35 40 45
 Leu Val Leu Gly Gly Met Arg Val Lys Lys Gly Arg Gly Leu Val Arg
 50 55 60
 Asp Thr Val Trp Val Val Gly Val Val Gly Asn Ala Gly
 65 70 75

<210> 611
 <211> 243
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (185)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (237)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (238)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (243)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 611

Glu	Gly	Glu	Lys	Ile	Ser	Ala	Asn	Glu	Asn	Ser	Leu	Ala	Val	Arg	Ser
1				5					10					15	

Thr	Pro	Ala	Glu	Asp	Asp	Ser	Arg	Asp	Ser	Gln	Val	Lys	Ser	Glu	Val
			20					25					30		

Gln	Gln	Pro	Val	His	Pro	Lys	Pro	Leu	Ser	Pro	Asp	Ser	Arg	Ala	Ser
		35					40					45			

Ser	Leu	Ser	Glu	Ser	Ser	Pro	Pro	Lys	Ala	Met	Lys	Lys	Phe	Gln	Ala
	50					55					60				

Pro	Ala	Arg	Glu	Thr	Cys	Val	Glu	Cys	Gln	Lys	Thr	Val	Tyr	Pro	Met
65					70					75					80

Glu	Arg	Leu	Leu	Ala	Asn	Gln	Gln	Val	Phe	His	Ile	Ser	Cys	Phe	Arg
				85					90					95	

Cys	Ser	Tyr	Cys	Asn	Asn	Lys	Leu	Ser	Leu	Gly	Thr	Tyr	Ala	Ser	Leu
			100				105						110		

His	Gly	Arg	Ile	Tyr	Cys	Lys	Pro	His	Phe	Asn	Gln	Leu	Phe	Lys	Ser
	115						120					125			

Lys	Gly	Asn	Tyr	Asp	Glu	Gly	Phe	Gly	His	Arg	Pro	His	Lys	Asp	Leu
	130					135					140				

Trp	Ala	Ser	Lys	Asn	Glu	Asn	Glu	Glu	Ile	Leu	Glu	Arg	Pro	Ala	Gln
145				150						155					160

Leu	Ala	Asn	Ala	Arg	Glu	Thr	Pro	His	Ser	Pro	Gly	Val	Glu	Asp	Ala
				165					170					175	

Pro	Ile	Ala	Lys	Val	Gly	Val	Leu	Xaa	Ala	Ser	Met	Glu	Ala	Lys	Ala
			180					185						190	

Ser Ser Gln Gln Glu Lys Glu Asp Lys Pro Ala Glu Thr Lys Lys Leu
 195 200 205

Arg Ile Ala Trp Pro Pro Pro Thr Glu Leu Gly Ser Ser Gly Ser Ala
 210 215 220

Leu Glu Glu Gly Ile Lys Met Ser Lys Pro Lys Trp Xaa Xaa Glu Asp
 225 230 235 240

Glu Ser Xaa

<210> 612

<211> 115

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 612

Met Arg Thr Asn Ser Phe Ala Glu Asp Leu Asp Leu Glu Gly Glu Thr
 1 5 10 15

Leu Leu Thr Pro Ile Thr His Ile Ser Gln Leu Arg Glu His His Arg
 20 25 30

Ala Thr Ile Lys Val Ile Xaa Arg Met Gln Tyr Phe Val Ala Lys Lys
 35 40 45

Lys Phe Gln Gln Ala Arg Lys Pro Tyr Asp Val Arg Asp Val Ile Glu
 50 55 60

Gln Tyr Ser Gln Gly His Leu Asn Leu Met Val Arg Ile Lys Glu Leu
 65 70 75 80

Gln Arg Arg Leu Asp Gln Ser Ile Gly Lys Pro Ser Leu Phe Ile Ser
 85 90 95

Val Ser Glu Lys Ser Lys Asp Arg Gly Thr Thr Arg Ser Ala Pro Ala
 100 105 110

Gly Thr Glu
 115

<210> 613
 <211> 175
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (52)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 613
 Ile Asn Met Ala Arg Met Asn Arg Pro Ala Pro Val Glu Val Thr Tyr
 1 5 10 15
 Lys Asn Met Arg Phe Leu Ile Thr His Asn Pro Thr Asn Ala Thr Leu
 20 25 30
 Asn Lys Phe Ile Glu Glu Leu Lys Lys Tyr Gly Val Thr Thr Ile Val
 35 40 45
 Arg Val Cys Xaa Ala Thr Tyr Asp Thr Thr Leu Val Glu Lys Glu Gly
 50 55 60
 Ile His Val Leu Asp Trp Pro Phe Asp Asp Gly Ala Pro Pro Ser Asn
 65 70 75 80
 Gln Ile Val Asp Asp Trp Leu Ser Leu Val Lys Ile Lys Phe Arg Glu
 85 90 95
 Glu Pro Gly Cys Cys Ile Ala Val His Cys Val Ala Gly Leu Gly Arg
 100 105 110
 Ala Pro Val Leu Val Ala Leu Ala Leu Ile Glu Gly Gly Met Lys Tyr
 115 120 125
 Glu Asp Ala Val Gln Phe Ile Arg Gln Lys Arg Arg Gly Ala Phe Asn
 130 135 140
 Ser Lys Gln Leu Leu Tyr Leu Glu Lys Tyr Arg Pro Lys Met Arg Leu
 145 150 155 160
 Arg Phe Lys Asp Ser Asn Gly His Arg Asn Asn Cys Cys Ile Gln
 165 170 175

<210> 614
 <211> 143
 <212> PRT
 <213> Homo sapiens

<400> 614

Thr Ser Asn Thr Ser Tyr Leu Leu Leu Asp Leu Leu Ala Gln His Ile
 1 5 10 15

Thr Ile Asn Thr Cys Lys Ile Thr Cys Ile Trp Leu Tyr Phe Tyr Leu
 20 25 30

Leu Ala Pro Arg Arg Glu Lys Lys Ile Asn Phe Glu Ser Gln Leu Gly
 35 40 45

Ile Asp Ala Leu Ile Phe Gly Tyr Phe Phe Arg Ile Phe Asn Leu Leu
 50 55 60

Trp Ser Gly Leu Arg Ser Ser Val Val Ser Gly Phe Val His Lys Arg
 65 70 75 80

Lys Ala Gln Lys Leu Asn Ala His Gly Ala Cys Ala Phe Cys Ala Pro
 85 90 95

Asn Ile Trp Met Arg Phe Phe Phe Gln Ala Tyr Ser Gln Ile Cys Val
 100 105 110

Gln Asn Phe Leu Thr Phe Leu Leu Cys Ile Ile Ile Glu Phe Ile Ala
 115 120 125

Ala Asp Phe Tyr Asn Asp Ser Cys Cys His Val Ser Leu Asn Asn
 130 135 140

<210> 615

<211> 131

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 615

Pro His His His Ser Trp Leu Cys Leu Pro Pro Pro Thr Pro Ala Val
 1 5 10 15

Pro Leu Xaa Met Glu Lys Ile Leu Ile Leu Leu Val Ala Leu Ser
 20 25 30

Val Ala Tyr Ala Ala Pro Gly Pro Arg Gly Ile Ile Ile Asn Leu Glu
 35 40 45

Asn Gly Glu Leu Cys Met Asn Ser Ala Gln Cys Lys Ser Asn Cys Cys
 50 55 60

Gln His Ser Ser Ala Leu Gly Leu Ala Arg Cys Thr Ser Met Ala Ser
 65 70 75 80

Glu Asn Ser Glu Cys Ser Val Lys Thr Leu Tyr Gly Ile Tyr Tyr Lys
 85 90 95

Cys Pro Cys Glu Arg Gly Leu Thr Cys Glu Gly Asp Lys Thr Ile Val
 100 105 110

Gly Ser Ile Thr Asn Thr Asn Phe Gly Ile Cys His Asp Ala Gly Arg
 115 120 125

Ser Lys Gln
 130

<210> 616

<211> 162

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (137)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (148)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 616

Xaa Arg Val Leu Leu Ala Gln Gln Glu Ala Arg Thr Glu Phe Leu Arg
 1 5 10 15

Lys Lys Ala Arg His Gln Asn Ser Leu Pro Glu Leu Glu Ala Ala Glu
 20 25 30

Ala Gly Ala Pro Gly Ser Gly Pro Val Asp Leu Phe Arg Glu Leu Leu
 35 40 45

Glu Glu Gly Lys Gly Val Ile Arg Gly Asn Lys Glu Tyr Glu Glu Glu

50	55	60
Lys Arg Gln Glu Lys Glu Arg Gln Glu Lys Ala Leu Gly Ile Leu Thr		
65	70	75 80
Tyr Leu Gly Gln Ser Ala Ala Glu Ala Gln Thr Gln Pro Pro Trp Tyr		
	85	90 95
Gln Leu Pro Pro Gly Arg Gly Gly Pro Pro Pro Gly Pro Ala Pro Asp		
	100	105 110
Glu Lys Ile Lys Ser Arg Leu Asp Pro Leu Arg Glu Met Gln Lys His		
	115	120 125
Leu Gly Lys Lys Arg Gln His Gly Xaa Asp Glu Gly Ser Arg Ser Arg		
	130	135 140
Lys Glu Lys Xaa Gly Ser Glu Lys Gln Arg Pro Lys Glu Pro Pro Ser		
145	150	155 160
Leu Gly		

<210> 617

<211> 288

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (279)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 617

Gly Cys Gly Asp Ser Leu Ser Ser Gly Gly Gly Ala Cys Arg Ala Ala
1 5 10 15

Ala Ala Leu Thr Val Arg Ser Pro Ala Val Pro Cys Arg Arg Glu His
20 25 30

Ala Leu Phe His Ser Arg Asn Arg Val Pro Gln Arg Gly Gln Arg Arg
35 40 45

Leu Arg Tyr Val Ala Tyr Asn Ile His Val Asn Gly Val Leu His Cys

50	55	60
Arg Val Arg Tyr Ser Gln Leu Leu Gly Leu His Glu Gln Xaa Arg Lys		
65	70	75 80
Glu Tyr Gly Ala Asn Val Leu Pro Ala Phe Pro Pro Lys Lys Leu Phe		
	85	90 95
Ser Leu Thr Pro Ala Glu Val Glu Gln Arg Arg Glu Gln Leu Glu Lys		
	100	105 110
Tyr Met Gln Ala Val Arg Gln Asp Pro Leu Leu Gly Ser Ser Glu Thr		
	115	120 125
Phe Asn Ser Phe Leu Arg Arg Ala Gln Gln Glu Thr Gln Gln Val Pro		
	130	135 140
Thr Glu Glu Val Ser Leu Glu Val Leu Leu Ser Asn Gly Gln Lys Val		
	145	150 155 160
Leu Val Asn Val Leu Thr Ser Asp Gln Thr Glu Asp Val Leu Glu Ala		
	165	170 175
Val Ala Ala Lys Leu Asp Leu Pro Asp Asp Leu Ile Gly Tyr Phe Ser		
	180	185 190
Leu Phe Leu Val Arg Glu Lys Glu Asp Gly Ala Phe Ser Phe Val Arg		
	195	200 205
Lys Leu Gln Glu Phe Glu Leu Pro Tyr Val Ser Val Thr Ser Leu Arg		
	210	215 220
Ser Gln Glu Tyr Lys Ile Val Leu Arg Lys Ser Tyr Trp Asp Ser Ala		
	225	230 235 240
Tyr Asp Asp Asp Val Met Glu Asn Arg Val Gly Leu Asn Leu Leu Tyr		
	245	250 255
Ala Gln Thr Val Ser Asp Ile Glu Arg Gly Trp Ile Leu Val Thr Lys		
	260	265 270
Glu Gln His Arg Gln Leu Xaa Ile Ser Ala Arg Glu Lys Phe Ser Gln		
	275	280 285

<210> 618

<211> 189

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (167)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (184)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (188)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 618

Ala	Gln	Ser	Lys	Met	Ala	Ala	Leu	Arg	Ala	Leu	Cys	Gly	Phe	Arg	Gly
1				5					10					15	

Val	Ala	Ala	Gln	Val	Leu	Arg	Pro	Gly	Ala	Gly	Val	Arg	Leu	Pro	Ile
			20					25					30		

Gln	Pro	Ser	Arg	Gly	Val	Arg	Gln	Trp	Gln	Pro	Asp	Val	Glu	Trp	Ala
	35						40					45			

Gln	Gln	Phe	Gly	Gly	Ala	Val	Met	Tyr	Pro	Ser	Lys	Glu	Thr	Ala	His
	50					55						60			

Trp	Lys	Pro	Pro	Pro	Trp	Asn	Asp	Val	Asp	Pro	Pro	Lys	Asp	Thr	Ile
65					70					75					80

Val	Lys	Asn	Ile	Thr	Leu	Asn	Phe	Gly	Pro	Gln	His	Pro	Ala	Ala	His
				85					90					95	

Gly	Val	Leu	Arg	Leu	Val	Met	Glu	Leu	Ser	Gly	Glu	Met	Val	Arg	Lys
		100						105					110		

Cys	Asp	Pro	His	Ile	Gly	Leu	Leu	His	Arg	Gly	Thr	Glu	Lys	Leu	Ile
		115					120					125			

Glu	Tyr	Lys	Thr	Tyr	Leu	Gln	Ala	Leu	Pro	Tyr	Phe	Asp	Arg	Leu	Asp
	130					135					140				

Tyr	Val	Ser	Met	Met	Cys	Asn	Glu	Gln	Ala	Tyr	Phe	Ser	Ser	Cys	Gly
145						150				155					160

Glu	Val	Ala	Lys	His	Pro	Xaa	Ser	Ser	Ser	Gly	Thr	Trp	Ile	Arg	Val
				165					170					175	

Cys Leu Glu Lys Tyr Thr Phe Xaa Glu His Ile Xaa Leu
 180 185

<210> 619

<211> 245

<212> PRT

<213> Homo sapiens

<400> 619

Asp Tyr Arg Gly Ser His Gly Met Ala Phe Thr Phe Phe Glu Tyr Arg
 1 5 10 15

Ala Tyr Arg Ser Ile Ile Lys Asp Tyr Phe His Arg Gly Ala Lys Trp
 20 25 30

Thr Thr Ala Pro Lys Pro Thr Met Ala Asp Glu Leu Tyr Asn Gln Asp
 35 40 45

Tyr Pro Ile His Ser Val Glu Asp Arg His Lys Leu Ala Ala Gln Gly
 50 55 60

Lys Phe Val Thr Thr Glu Phe Glu Pro Cys Phe Asp Ala Ala Asp Phe
 65 70 75 80

Ile Arg Ala Gly Arg Asp Ile Phe Ala Gln Arg Ser Gln Val Thr Asn
 85 90 95

Tyr Leu Gly Ile Glu Trp Met Arg Arg His Leu Ala Pro Asp Tyr Arg
 100 105 110

Val His Ile Ile Ser Phe Lys Asp Pro Asn Pro Met His Ile Asp Ala
 115 120 125

Thr Phe Asn Ile Ile Gly Pro Gly Ile Val Leu Ser Asn Pro Asp Arg
 130 135 140

Pro Cys His Gln Ile Asp Leu Phe Lys Lys Ala Gly Trp Thr Ile Ile
 145 150 155 160

Thr Pro Pro Thr Pro Ile Ile Pro Asp Asp His Pro Leu Trp Met Ser
 165 170 175

Ser Lys Trp Leu Ser Met Asn Val Leu Met Leu Asp Glu Lys Arg Val
 180 185 190

Met Val Asp Ala Asn Glu Val Pro Ile Gln Lys Met Phe Glu Lys Leu
 195 200 205

Gly Ile Thr Thr Ile Lys Val Asn Ile Arg Asn Ala Asn Ser Leu Gly
210 215 220

Gly Gly Phe His Cys Trp Thr Cys Asp Val Arg Arg Arg Gly Thr Leu
225 230 235 240

Gln Ser Tyr Leu Asp
245

<210> 620

<211> 40

<212> PRT

<213> Homo sapiens

<400> 620

Asn Leu Glu His Leu Gly Gly Gly Arg Lys Tyr Pro Ser Tyr Leu Asp
1 5 10 15

Pro Tyr Phe Phe Leu Ser Ser Leu His Phe Gln Trp Lys Pro His Phe
20 25 30

Tyr Phe Arg Ile Arg Lys Leu Ser
35 40

<210> 621

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 621

Asn Ala Phe Ile Cys Thr Phe Arg Val Glu Ser Cys Phe Leu Leu Lys
1 5 10 15

Pro Phe Leu Ile Asp Ile Leu Arg Ala Ile Phe Leu Asn Xaa Pro Asp
20 25 30

Leu Leu Val Ser Glu Pro Ser Thr Xaa Ser Phe Pro Pro Gln Xaa Xaa
35 40 45

Gly Gly Asp Ser Glu Asn Gln Gly Arg Ala Gln Glu Lys Val Leu Ser
50 55 60

Glu His Gly Phe Ser Leu Val Thr Ser Asp Thr Ser Gln Glu Glu Gln
65 70 75 80

Thr Ser

<210> 622

<211> 249

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 622

Gly Glu Arg Glu Arg Glu Arg Ala Gly Phe Pro Ser Ile Pro Val Gly
1 5 10 15

564

Lys Ser Pro Met Val Glu Gln Ala Val Gln Thr Gly Ser Ala Asp Asn
 20 25 30
 Leu Asn Ala Lys Lys Leu Leu Pro Gly Lys Gly Thr Thr Gly Thr Xaa
 35 40 45
 Leu Asn Gly Arg Gln Ala Gln Pro Ser Ser Lys Thr Xaa Ser Asp Val
 50 55 60
 Val Gln Pro Ala Ala Val Gln Ala Gln Gly Gln Val Asn Asp Glu Asn
 65 70 75 80
 Arg Arg Pro Gln Arg Arg Arg Ser Gly Asn Arg Arg Thr Arg Asn Arg
 85 90 95
 Ser Arg Gly Gln Asn Arg Xaa Thr Asn Val Lys Glu Asn Thr Ile Lys
 100 105 110
 Phe Glu Gly Asp Phe Asp Phe Glu Ser Ala Asn Ala Gln Phe Asn Arg
 115 120 125
 Glu Glu Leu Asp Lys Glu Phe Lys Lys Lys Leu Asn Phe Lys Asp Asp
 130 135 140
 Lys Ala Xaa Lys Gly Glu Glu Lys Asp Leu Ala Val Val Thr Gln Ser
 145 150 155 160
 Ala Glu Ala Pro Ala Glu Glu Asp Leu Leu Gly Pro Asn Cys Tyr Tyr
 165 170 175
 Asp Lys Ser Lys Ser Phe Phe Asp Asn Ile Ser Ser Glu Leu Lys Thr
 180 185 190
 Ser Ser Arg Arg Thr Thr Trp Ala Glu Glu Arg Lys Leu Asn Thr Glu
 195 200 205
 Thr Phe Gly Val Ser Gly Arg Phe Leu Arg Gly Arg Ser Ser Arg Gly
 210 215 220
 Gly Phe Arg Gly Gly Arg Gly Asn Gly Thr Thr Arg Arg Asn Pro Thr
 225 230 235 240
 Ser His Arg Ala Gly Thr Gly Arg Val
 245

<210> 623

<211> 326

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (302)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 623

Arg Glu Pro Arg Ala Trp Gly Gly Gly Gly Gly Arg Gly Gly Trp Gly
1 5 10 15

Arg Arg Arg Phe Pro Gly Pro Gly Leu Gln Leu Gly Gly Glu Ala Glu
20 25 30

Pro Val Leu Pro Pro Leu Gly Ser Gly Arg Arg Ala Pro Glu Asp Gly
35 40 45

Arg Ala Ala His His Gly Ala His Leu Leu Gln Gly Asp Glu Ile Trp
50 55 60

Asn Ala Leu Thr Asp Asn Tyr Gly Asn Val Met Pro Val Asp Trp Lys
65 70 75 80

Ser Ser His Thr Arg Thr Leu His Leu Leu Thr Leu Asn Leu Ser Glu
85 90 95

Lys Gly Val Ser Asp Ser Leu Leu Phe Asp Thr Ser Asp Asp Glu Glu
100 105 110

Leu Arg Glu Gln Leu Asp Met His Ser Ile Ile Val Ser Cys Val Asn
115 120 125

Asp Glu Pro Leu Phe Thr Ala Asp Gln Val Ile Glu Glu Ile Glu Glu
130 135 140

Met Met Gln Glu Ser Pro Asp Pro Glu Asp Asp Glu Thr Pro Thr Gln
145 150 155 160

Ser Asp Arg Leu Ser Met Leu Ser Gln Glu Ile Gln Thr Leu Lys Arg
165 170 175

Ser Ser Thr Gly Ser Tyr Glu Glu Arg Val Lys Arg Leu Ser Val Ser
180 185 190

Glu Leu Asn Glu Ile Leu Glu Glu Ile Glu Thr Ala Ile Lys Glu Tyr
195 200 205

Ser Glu Glu Leu Val Gln Gln Leu Ala Leu Arg Asp Glu Leu Glu Phe
210 215 220

Glu Lys Glu Val Lys Asn Ser Phe Ile Ser Val Leu Ile Glu Val Gln

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225                230                235                240
Asn Lys Gln Lys Glu His Lys Glu Thr Ala Lys Lys Lys Lys Leu
                245                250                255

Lys Asn Gly Ser Ser Gln Asn Gly Lys Asn Glu Arg Ser His Met Pro
                260                265                270

Gly Thr Tyr Leu Thr Thr Val Ile Pro Tyr Glu Lys Lys Asn Gly Pro
                275                280                285

Pro Ser Val Glu Asp Leu Gln Ile Leu Thr Lys Ile Leu Xaa Ala Met
                290                295                300

Lys Glu Asp Ser Glu Lys Val Pro Ser Leu Leu Thr Asp Tyr Ile Leu
305                310                315                320

Lys Val Leu Cys Pro Thr
                325

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<210> 624

<211> 245

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 624

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Glu Arg Ala Cys Xaa Gly Ala Leu Leu Gln His Leu Gly Ser Trp Asp
 1                5                10                15

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Gln Asp Cys Pro Asp Val Val Pro Thr Gly Leu Pro Lys Ser Gly Arg
 20                25                30

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His Pro Gln Pro Gly Leu Pro Asp Asn Pro Ala Gly His Arg Leu Lys
 35                40                45

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567

His Tyr Ser Asp Phe Leu Glu Arg Met Pro Arg Glu Glu Ala Thr Glu
50 55 60

Ile Glu Gln Thr Val Gln Lys Ala Ala Gln Ala Phe Asn Ser Gly Leu
65 70 75 80

Leu Cys Val Ala Cys Gly Ser Tyr Arg Arg Gly Lys Ala Thr Cys Gly
85 90 95

Asp Val Asp Val Leu Ile Thr His Pro Asp Gly Xaa Ser His Arg Xaa
100 105 110

Ile Phe Ser Arg Leu Leu Asp Ser Leu Arg Gln Glu Gly Phe Leu Thr
115 120 125

Asp Asp Leu Val Ser Gln Glu Glu Asn Gly Gln Gln Gln Lys Tyr Leu
130 135 140

Gly Val Cys Arg Leu Pro Gly Pro Gly Arg Arg His Arg Arg Leu Asp
145 150 155 160

Ile Ile Val Val Pro Tyr Ser Glu Phe Ala Cys Ala Leu Leu Tyr Phe
165 170 175

Thr Gly Ser Ala His Phe Asn Arg Ser Met Arg Ala Leu Ala Lys Thr
180 185 190

Lys Gly Met Ser Leu Ser Glu His Ala Leu Ser Thr Ala Val Val Arg
195 200 205

Asn Thr His Gly Cys Lys Val Gly Pro Gly Arg Val Leu Pro Thr Pro
210 215 220

Thr Glu Lys Asp Val Phe Arg Leu Leu Gly Leu Pro Tyr Arg Glu Pro
225 230 235 240

Ala Glu Arg Asp Trp
245

<210> 625

<211> 150

<212> PRT

<213> Homo sapiens

<400> 625

Gly Glu Arg Gly Gly Ser Pro Glu Pro Leu Arg Trp Glu Ser Pro Leu
1 5 10 15

568

Leu Gly Pro Ser Leu Pro Ser Ser Pro Lys Leu Tyr Thr Gly Cys Ser
 20 25 30
 Asp Gln Pro Thr Thr His Gln Ala Ser Pro Pro Leu Cys Pro Arg Leu
 35 40 45
 Leu Ala Pro Ala Ala Pro Gly Ser Trp Phe Ile Leu Pro Pro Leu Ser
 50 55 60
 Leu Pro Ala Ser Pro Ser Val Leu Thr Trp Leu Gln Pro Ser Ser Cys
 65 70 75 80
 Ser Pro Trp Gly Lys Ala Ala Ser Leu Leu Leu Ser Leu His Ser Leu
 85 90 95
 Ala Pro Ser Leu Ser Pro Cys Leu Cys Gln Val Pro Pro Leu Ser Gln
 100 105 110
 Ala Ser Glu Gln Pro Trp Arg Gln Glu Gly His Val Lys Ser Phe Phe
 115 120 125
 Thr Val Leu Arg Arg Gln Val Glu Gly Glu Asp Ser Gly Gly Gly Ser
 130 135 140
 Gly Thr Ile Ser Leu Leu
 145 150

<210> 626
 <211> 235
 <212> PRT
 <213> Homo sapiens

<400> 626
 Asp Gly Val Trp Val Ser Ile Arg Leu Asp Ser Thr Leu Arg Leu Tyr
 1 5 10 15
 His Ala His Thr Tyr Gln His Leu Gln Asp Val Asp Ile Glu Pro Tyr
 20 25 30
 Val Ser Lys Met Leu Gly Thr Gly Lys Leu Gly Phe Ser Phe Val Arg
 35 40 45
 Ile Thr Ala Leu Met Val Ser Cys Asn Arg Leu Trp Val Gly Thr Gly
 50 55 60
 Asn Gly Val Ile Ile Ser Ile Pro Leu Thr Glu Thr Val Ile Leu His
 65 70 75 80
 Gln Gly Arg Leu Leu Gly Leu Arg Ala Asn Lys Thr Ser Gly Val Pro

569

	85		90		95
Gly Asn Arg Pro Gly Ser Val Ile Arg Val Tyr Gly Asp Glu Asn Ser					
	100		105		110
Asp Lys Val Thr Pro Gly Thr Phe Ile Pro Tyr Cys Ser Met Ala His					
	115		120		125
Ala Gln Leu Cys Phe His Gly His Arg Asp Ala Val Lys Phe Phe Val					
	130		135		140
Ala Val Pro Gly Gln Val Ile Ser Pro Gln Ser Ser Ser Ser Gly Thr					
	145		150		155
Asp Leu Thr Gly Asp Lys Ala Gly Pro Ser Ala Gln Glu Pro Gly Ser					
	165		170		175
Gln Thr Pro Leu Lys Ser Met Leu Val Ile Ser Gly Gly Glu Gly Tyr					
	180		185		190
Ile Asp Phe Arg Met Gly Asp Glu Gly Gly Glu Ser Glu Leu Leu Gly					
	195		200		205
Glu Asp Leu Pro Leu Glu Pro Ser Val Thr Lys Ala Glu Arg Ser His					
	210		215		220
Leu Ile Val Trp Gln Val Met Tyr Gly Asn Glu					
	225		230		235

<210> 627

<211> 131

<212> PRT

<213> Homo sapiens

<400> 627

Phe Gly Thr Ser Phe Pro Ser Cys Ser Val Val Val Phe Ser Leu Leu					
1		5		10	15
Leu Leu Leu Leu Leu Arg Leu Gly Glu Pro Ser Trp Gly Arg Met Val					
	20		25		30
Cys Glu Lys Cys Glu Lys Lys Leu Gly Thr Val Ile Thr Pro Asp Thr					
	35		40		45
Trp Lys Asp Gly Ala Arg Asn Thr Thr Glu Ser Gly Gly Arg Lys Leu					
	50		55		60
Asn Glu Asn Lys Ala Leu Thr Ser Lys Lys Ala Arg Phe Asp Pro Tyr					
	65		70		75
					80

570

Gly Lys Asn Lys Phe Ser Thr Cys Arg Ile Cys Lys Ser Ser Val His
85 90 95

Gln Pro Gly Ser His Tyr Cys Gln Gly Cys Ala Tyr Lys Lys Gly Ile
100 105 110

Cys Ala Met Cys Gly Lys Lys Val Leu Asp Thr Lys Asn Tyr Lys Gln
115 120 125

Thr Ser Val
130

<210> 628

<211> 64

<212> PRT

<213> Homo sapiens

<400> 628

Leu Leu Met Val Thr Phe Leu Val Cys Ser Arg Lys Thr Cys Arg Leu
1 5 10 15

Tyr Ala Arg Tyr Val Asn Lys Asp Cys Gly Leu Lys Gly Glu Lys Leu
20 25 30

Ile Ile His Thr His Asp Lys Asn Ser Tyr Phe Leu Phe Leu Cys Leu
35 40 45

Phe Ile Gln Lys Gln Val Arg Ala Glu Lys Val Ser Ser Tyr Ser Thr
50 55 60

<210> 629

<211> 396

<212> PRT

<213> Homo sapiens

<400> 629

Val Gly Pro Ala Cys Glu Gln Thr Arg Pro Leu Arg Ala Pro Pro Ser
1 5 10 15

Ser Gln Asp Lys Ile Pro Gln Gln Asn Ser Glu Ser Ala Met Ala Lys
20 25 30

Pro Gln Val Val Val Ala Pro Val Leu Met Ser Lys Leu Ser Val Asn

571

35	40	45
Ala Pro Glu Phe Tyr Pro Ser Gly Tyr Ser Ser Ser Tyr Thr Glu Ser		
50	55	60
Tyr Glu Asp Gly Cys Glu Asp Tyr Pro Thr Leu Ser Glu Tyr Val Gln		
65	70	75
Asp Phe Leu Asn His Leu Thr Glu Gln Pro Gly Ser Phe Glu Thr Glu		
	85	90
Ile Glu Gln Phe Ala Glu Thr Leu Asn Gly Cys Val Thr Thr Asp Asp		
	100	105
Ala Leu Gln Glu Leu Val Glu Leu Ile Tyr Gln Gln Ala Thr Ser Ile		
	115	120
Pro Asn Phe Ser Tyr Met Gly Ala Arg Leu Cys Asn Tyr Leu Ser His		
	130	135
His Leu Thr Ile Ser Pro Gln Ser Gly Asn Phe Arg Gln Leu Leu Leu		
	145	150
Gln Arg Cys Arg Thr Glu Tyr Glu Val Lys Asp Gln Ala Ala Lys Gly		
	165	170
Asp Glu Val Thr Arg Lys Arg Phe His Ala Phe Val Leu Phe Leu Gly		
	180	185
Glu Leu Tyr Leu Asn Leu Glu Ile Lys Gly Thr Asn Gly Gln Val Thr		
	195	200
Arg Ala Asp Ile Leu Gln Val Gly Leu Arg Glu Leu Leu Asn Ala Leu		
	210	215
Phe Ser Asn Pro Met Asp Asp Asn Leu Ile Cys Ala Val Lys Leu Leu		
	225	230
Lys Leu Thr Gly Ser Val Leu Glu Asp Ala Trp Lys Glu Lys Gly Lys		
	245	250
Met Asp Met Glu Glu Ile Ile Gln Arg Ile Glu Asn Val Val Leu Asp		
	260	265
Ala Asn Cys Ser Arg Asp Val Lys Gln Met Leu Leu Lys Leu Val Glu		
	275	280
Leu Arg Ser Ser Asn Trp Gly Arg Val His Ala Thr Ser Thr Tyr Arg		
	290	295
Glu Ala Thr Pro Glu Asn Asp Pro Asn Tyr Phe Met Asn Glu Pro Thr		

572

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305          310          315          320
Phe Tyr Thr Ser Asp Gly Val Pro Phe Thr Ala Ala Asp Pro Asp Tyr
          325          330          335
Gln Glu Lys Tyr Gln Glu Leu Leu Glu Arg Glu Asp Phe Phe Pro Asp
          340          345          350
Tyr Glu Glu Asn Gly Thr Asp Leu Ser Gly Ala Gly Asp Pro Tyr Leu
          355          360          365
Asp Asp Ile Asp Asp Glu Met Asp Pro Glu Ile Glu Glu Ala Tyr Glu
          370          375          380
Lys Phe Cys Leu Glu Ser Glu Arg Lys Arg Lys Gln
385          390          395

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<210> 630

<211> 189

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 630

```

Leu Ile Leu Gly Glu Leu Glu Lys Gly Gln Ser Gln Phe Gln Ala Leu
  1          5          10          15
Cys Phe Val Thr Gln Leu Gln His Asn Glu Ile Ile Pro Ser Xaa Ala
          20          25          30
Met Ala Lys Leu Arg Gln Lys Asn Pro Arg Ala Val Arg Gln Ala Glu
          35          40          45
Glu Val Arg Gly Leu Glu His Leu His Met Asp Val Ala Val Asn Phe
          50          55          60
Ser Gln Gly Ala Leu Leu Ser Pro His Leu His Asn Val Cys Ala Glu
          65          70          75          80
Ala Val Asp Ala Ile Tyr Thr Arg Gln Glu Asp Val Arg Phe Trp Leu
          85          90          95
Glu Gln Gly Val Asp Ser Ser Val Phe Glu Ala Leu Pro Lys Ala Ser
          100          105          110

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Glu Gln Ala Glu Leu Pro Arg Cys Arg Gln Val Gly Asp Arg Gly Lys
 115 120 125

Pro Cys Val Cys His Tyr Gly Leu Ser Leu Ala Trp Tyr Pro Cys Met
 130 135 140

Leu Lys Tyr Cys His Ser Arg Asp Arg Pro Thr Pro Tyr Lys Cys Gly
 145 150 155 160

Ile Arg Ser Cys Gln Lys Ser Tyr Ser Phe Asp Phe Tyr Val Pro Gln
 165 170 175

Arg Gln Leu Cys Leu Trp Asp Glu Asp Pro Tyr Pro Gly
 180 185

<210> 631

<211> 32

<212> PRT

<213> Homo sapiens

<400> 631

Phe Pro Leu Ala Met Ala Pro Phe Ser Thr Ser Ala Phe His Ser Asn
 1 5 10 15

Ser His Arg Arg Ile Ala Arg Thr Gln Gly Val Glu Val Ala Val Ser
 20 25 30

<210> 632

<211> 144

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 632

His	Val	Pro	Ala	Arg	Gln	Ser	Leu	Val	Leu	Phe	Pro	Glu	Gln	Asp	Asp
1				5					10					15	

Xaa	Lys	Arg	Thr	Leu	Leu	Asp	Pro	Thr	Leu	Lys	Ala	Glu	Gly	Xaa	Lys
			20					25					30		

Pro	Gln	Glu	Ala	Leu	Ser	Ala	Thr	Pro	Arg	Glu	Glu	His	Lys	Gly	Leu
	35						40					45			

His	Asn	Ala	Thr	His	Pro	Leu	Leu	Ala	Lys	Cys	Tyr	Pro	Asp	Gly	Gly
	50					55				60					

Gly	Cys	Glu	Gly	Ile	Ala	Pro	Ser	His	Ile	His	Ser	Leu	Cys	Gly	Leu
65				70					75					80	

Ser	Ser	Ser	Gly	Gln	Xaa	Xaa	Ala	Xaa	Ser	Gly	Leu	Ser	Ser	Leu	Cys
			85					90						95	

Ser	Val	Cys	Gly	Asp	Arg	Phe	His	Ala	Arg	Thr	Pro	Ser	Ser	Ser	Ile
			100					105					110		

Pro	His	Phe	Thr	Pro	Ser	His	Thr	Ser	Ser	Ile	Gln	Gly	Leu	Leu	Asn
	115						120					125			

Cys	Gln	Glu	Gln	Val	Leu	Glu	Phe	Pro	Ser	Pro	Ala	Glu	Ser	Phe	Ser
	130					135					140				

<210> 633

<211> 102

<212> PRT

<213> Homo sapiens

575

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 633

Gly	Cys	Thr	Lys	Thr	Ser	Cys	Val	Thr	Pro	Gln	Ser	Cys	Leu	Trp	Val
1				5					10				15		

Pro	Ser	Gln	Ser	Gln	Gly	Lys	Ser	Pro	Gly	Glu	Tyr	Xaa	Ser	Gln	Gln
		20					25						30		

Arg	Ile	Leu	Thr	Cys	Ser	Arg	Ile	Trp	Phe	Asp	Phe	Pro	Thr	Ile	Trp
	35						40					45			

Val	Asp	Ala	Leu	Pro	Val	Thr	Val	Ala	Val	Pro	Ile	Arg	Gln	Met	Lys
	50					55					60				

Gly	Ser	Ala	Pro	His	Val	Ser	Trp	Asn	Asp	Gly	Pro	Val	Phe	Arg	Asp
65					70					75					80

Leu	Thr	Glu	Pro	Thr	Ser	Lys	Thr	Ser	Glu	Asn	Arg	Lys	Lys	Glu	Glu
				85					90					95	

Asp	Thr	Gly	Ile	Asn	Ser
					100

<210> 634

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 634

Val	Gln	Lys	Asn	Tyr	Phe	Glu	Tyr	Leu	Asn	Ile	Cys	Cys	Ile	Phe	Phe
1				5					10				15		

Arg	Ile	Tyr	Asn	Met	Ser	Ser	Phe	Arg	Met	Gly	Ile	Tyr	Val	Cys	Leu
			20					25					30		

Pro	Thr	Phe	Thr	Val	Lys	Val	Cys	Tyr	Leu	Tyr	Met	Ser	Asn	Trp	Leu
		35					40					45			

Asn	Thr	Val	Met	Arg	Ile	Asn	Cys	Thr	Glu	Phe	Ile	Leu	Lys	Lys	Lys
	50					55					60				

Lys Lys Xaa Pro Gly Gly
65 70

<210> 635
<211> 297
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (222)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (242)
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<220>
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<220>
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<220>
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<220>

<221> SITE

<222> (295)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (296)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 635

Arg	Thr	Asp	Pro	Glu	Glu	Glu	Asp	Ser	Glu	Thr	Thr	Ala	Ala	Gly	Val
1				5					10					15	

Thr	Val	Thr	Val	Ala	Val	Thr	Cys	Gly	Ala	Ala	Gly	Ser	Ser	Ser	Ser
			20					25					30		

Ala	Ser	Gly	Pro	Gly	Ala	Ser	Pro	Gly	Gly	Ser	Glu	Ala	Gly	Ser	Gln
		35					40					45			

Gly	Ser	Gly	Glu	Gly	Glu	Gly	Val	Gln	Leu	Thr	Ala	Ala	Gln	Glu	Leu
	50					55					60				

Met	Ile	Gln	Gln	Leu	Val	Ala	Ala	Gln	Leu	Gln	Cys	Asn	Lys	Arg	Ser
65					70					75					80

Phe	Ser	Asp	Gln	Pro	Lys	Val	Thr	Pro	Trp	Pro	Leu	Gly	Ala	Asp	Pro
				85					90					95	

Gln	Ser	Arg	Asp	Ala	Arg	Gln	Gln	Arg	Phe	Ala	His	Phe	Thr	Glu	Leu
			100					105					110		

Ala	Ile	Ile	Ser	Val	Gln	Glu	Ile	Val	Asp	Phe	Ala	Lys	Gln	Val	Pro
	115						120					125			

Gly	Phe	Leu	Gln	Leu	Gly	Arg	Glu	Asp	Gln	Ile	Ala	Leu	Leu	Lys	Ala
	130					135					140				

Ser	Thr	Ile	Glu	Ile	Met	Leu	Leu	Glu	Thr	Ala	Arg	Arg	Tyr	Asn	His
145					150					155					160

Glu	Thr	Glu	Cys	Ile	Thr	Phe	Leu	Lys	Asp	Phe	Thr	Tyr	Ser	Lys	Asp
			165						170					175	

Asp	Phe	His	Arg	Ala	Gly	Leu	Gln	Val	Glu	Phe	Ile	Asn	Pro	Ile	Phe
			180					185					190		

Glu	Phe	Ser	Arg	Ala	Met	Arg	Arg	Leu	Gly	Leu	Asp	Asp	Ala	Glu	Tyr
			195				200					205			

Ala	Leu	Leu	Ile	Ala	Ile	Asn	Ile	Phe	Ser	Ala	Asp	Arg	Xaa	Asn	Val
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

578

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      210              215              220
Gln Glu Pro Gly Arg Val Glu Ala Leu Gln Gln Pro Tyr Val Gly Gly
225              230              235              240

Ala Xaa Val Leu His Ala His Gln Glu Ala Ala Gly Pro Xaa Ala Phe
      245              250              255

Pro Arg Met Leu His Glu Ala Gly Glu Pro Ala Xaa Xaa Glu Leu Leu
      260              265              270

Cys Xaa Ser Glu Gln Val Phe Xaa Leu Xaa Gly Phe Arg Asp Lys Glu
      275              280              285

Thr Cys Arg Leu Leu Leu Xaa Xaa Asn
      290              295

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<210> 636

<211> 113

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 636

```

Val Ser Ala Ala Gly Arg Ala Xaa Arg Gln Leu Gly Ala Ala Glu Pro
  1              5              10              15

```

```

Arg Glu Ala Glu Gly Ala Val Ala Ala Ala Thr Ala Thr Thr Thr Thr
      20              25              30

```

```

Pro Ala Arg Val Pro Ser Leu Phe Pro Pro Gln Pro Pro Phe Ser Ser
      35              40              45

```

```

Leu Pro Tyr Val Pro Glu Cys Gly Ser Thr Ala Ser Phe Pro Ala Ala
      50              55              60

```

```

Arg Leu Pro Pro Asp Leu Ser Ala Arg Val Gly Thr Met Ser Leu Lys
      65              70              75              80

```

```

Phe Gln Gly Lys Gln Cys Xaa Pro Thr Arg Met Asp Pro Lys Ser Ile

```


579

85 90 95

Asn Leu Asp Leu Ile Gly Asn Leu Gln His Ser Leu Gly Gly Arg Ile

100 105 110

Gln

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<210> 637
<211> 71
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 637
Ser Trp Tyr Leu Phe Cys Met Asp Gly Phe Glu Phe Ser Phe Ile Ser
1 5 10 15

Asp Gln Val Leu Ser Lys Tyr Thr Val Cys His Leu His Ile Leu Ala
20 25 30

Pro Ser Phe Lys Asn Gly Leu Leu Ile Arg Asp Val Glu Arg Val Ser
35 40 45

His Ile Xaa Thr Leu Arg Asp Lys Ser Met Cys Ile Thr Asn Ile Leu
50 55 60

Cys Arg Gly Gly Val Leu Arg
65 70

```
<210> 638
<211> 233
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (180)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 638
Tyr Glu Val Leu Arg Asp Asn Thr Leu Val Thr Leu Ala Asn Ile Ser
1 5 10 15

580

Gly Gln Leu Asp Leu Ser Ala Tyr Thr Glu Ser Ile Cys Leu Pro Ile
 20 25 30
 Leu Asp Gly Leu Leu His Trp Met Val Cys Pro Ser Ala Glu Ala Gln
 35 40 45
 Asp Pro Phe Pro Thr Val Gly Pro Asn Ser Val Leu Ser Pro Gln Arg
 50 55 60
 Leu Val Leu Glu Thr Leu Cys Lys Leu Ser Ile Gln Asp Asn Asn Val
 65 70 75 80
 Asp Leu Ile Leu Ala Thr Pro Pro Phe Ser Arg Gln Glu Lys Phe Tyr
 85 90 95
 Ala Thr Leu Val Arg Tyr Val Gly Asp Arg Lys Asn Pro Val Cys Arg
 100 105 110
 Glu Met Ser Met Ala Leu Leu Ser Asn Leu Ala Gln Gly Asp Ala Leu
 115 120 125
 Ala Ala Arg Ala Ile Ala Val Gln Lys Gly Ser Ile Gly Asn Leu Ile
 130 135 140
 Ser Phe Leu Glu Asp Gly Val Thr Met Ala Gln Tyr Gln Gln Ser Gln
 145 150 155 160
 His Asn Leu Met His Met Gln Pro Pro Pro Leu Glu Pro Pro Ser Val
 165 170 175
 Asp Met Met Xaa Arg Ala Ala Lys Ala Leu Leu Ala Met Ala Arg Val
 180 185 190
 Asp Glu Asn Arg Ser Glu Phe Leu Leu His Glu Gly Arg Leu Leu Asp
 195 200 205
 Ile Ser Ile Ser Ala Val Leu Asn Ser Leu Val Ala Ser Val Ile Cys
 210 215 220
 Asp Val Leu Phe Gln Ile Gly Gln Leu
 225 230

<210> 639

<211> 106

<212> PRT

<213> Homo sapiens

<400> 639

581

Phe Ala Ala Val Gly Ala Gly Cys Val Ile Phe Leu Leu Ile Ile Ile
 1 5 10 15
 Phe Leu Thr Val Leu Leu Leu Lys Leu Arg Lys Arg His Arg Lys His
 20 25 30
 Thr Gln Gln Arg Ala Ala Ala Leu Ser Leu Ser Thr Leu Ala Ser Pro
 35 40 45
 Lys Gly Gly Ser Gly Thr Ala Gly Thr Glu Pro Ser Asp Ile Ile Ile
 50 55 60
 Pro Leu Arg Thr Thr Glu Asn Asn Tyr Cys Pro His Tyr Glu Lys Val
 65 70 75 80
 Ser Gly Asp Tyr Gly His Pro Val Tyr Ile Val Gln Glu Met Pro Pro
 85 90 95
 Gln Ser Pro Ala Asn Ile Tyr Tyr Lys Val
 100 105

<210> 640

<211> 164

<212> PRT

<213> Homo sapiens

<400> 640

Phe Met Tyr Val Phe Ser Gln Gly Asp Arg Val Val Leu Phe Ser Gln
 1 5 10 15
 Phe Thr Met Met Leu Asp Ile Leu Glu Val Leu Leu Lys His His Gln
 20 25 30
 His Arg Tyr Leu Arg Leu Asp Gly Lys Thr Gln Ile Ser Glu Arg Ile
 35 40 45
 His Leu Ile Asp Glu Phe Asn Thr Asp Met Asp Ile Phe Val Phe Leu
 50 55 60
 Leu Ser Thr Lys Ala Gly Gly Leu Gly Ile Asn Leu Thr Ser Ala Asn
 65 70 75 80
 Val Val Ile Leu His Asp Ile Asp Cys Asn Pro Tyr Asn Asp Lys Gln
 85 90 95
 Ala Glu Asp Arg Cys His Arg Val Gly Gln Thr Lys Glu Val Leu Val
 100 105 110
 Ile Lys Leu Ile Ser Gln Gly Thr Ile Glu Glu Ser Met Leu Lys Ile

582

115 120 125
 Asn Gln Gln Lys Leu Lys Leu Glu Gln Asp Met Thr Thr Val Asp Glu
 130 135 140
 Gly Asp Glu Gly Ser Met Pro Ala Asp Ile Ala Thr Leu Leu Lys Thr
 145 150 155 160
 Ser Met Gly Leu

<210> 641
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 641
 Thr Tyr Pro Phe Thr Leu Ser Leu Cys Ala Asn Leu Ile Leu Tyr Tyr
 1 5 10 15
 Ile Pro Lys Leu Tyr Ile Ala Leu Phe Leu Ser Ser Ile Leu Leu Tyr
 20 25 30
 Trp Thr Ile Val Cys Ser Tyr Ala Asn Pro Thr Leu Phe
 35 40 45

<210> 642
 <211> 133
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 642
 Xaa Phe Ser Gln Thr Val Ser Ala Val Cys Leu Pro Ser Ala Asp Asp
 1 5 10 15
 Asp Phe Pro Ala Gly Thr Leu Cys Ala Thr Thr Gly Trp Gly Lys Thr
 20 25 30
 Lys Tyr Asn Ala Asn Lys Thr Pro Asp Lys Leu Gln Gln Ala Ala Leu
 35 40 45
 Pro Leu Leu Ser Asn Ala Glu Cys Lys Lys Ser Trp Gly Arg Arg Ile

583

50 55 60

Thr Asp Val Met Ile Cys Ala Gly Ala Ser Gly Val Ser Ser Cys Met
65 70 75 80

Gly Asp Ser Gly Gly Pro Leu Val Cys Gln Lys Asp Gly Ala Trp Thr
 85 90 95

Leu Val Gly Ile Val Ser Trp Gly Ser Asp Thr Cys Ser Thr Ser Ser
 100 105 110

Pro Gly Val Tyr Ala Arg Val Thr Lys Leu Ile Pro Trp Val Gln Lys
 115 120 125

Ile Leu Ala Ala Asn
130

<210> 643

<211> 146

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (126)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (133)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (137)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 643

Gln	Xaa	Phe	Gly	Gln	Lys	Thr	Leu	Trp	Leu	Leu	Ser	Cys	Phe	Ser	Leu
1				5					10					15	

Val	Gly	Ala	Ala	Phe	Gly	Cys	Gly	Val	Pro	Ala	Ile	His	Pro	Val	Leu
		20						25					30		

Ser	Gly	Leu	Ser	Arg	Ile	Val	Asn	Gly	Glu	Asp	Ala	Val	Pro	Gly	Ser
		35					40					45			

Trp	Pro	Trp	Gln	Val	Ser	Leu	Gln	Asp	Lys	Thr	Gly	Phe	His	Phe	Cys
	50					55					60				

Gly	Gly	Ser	Leu	Ile	Ser	Glu	Asp	Trp	Val	Val	Thr	Ala	Ala	His	Cys
65				70					75						80

Gly	Val	Arg	Thr	Ser	Asp	Val	Val	Val	Ala	Gly	Glu	Phe	Xaa	Gln	Gly
			85						90					95	

Ser	Asp	Glu	Glu	Asn	Ile	Gln	Val	Leu	Lys	Ile	Ala	Lys	Val	Phe	Lys
		100						105					110		

Asn	Pro	Lys	Phe	Ser	Ile	Leu	Thr	Val	Asn	Asn	Asp	Ile	Xaa	Leu	Leu
		115				120						125			

Lys	Xaa	Ala	Thr	Xaa	Ala	Pro	Phe	Xaa	Gln	Thr	Val	Ser	Ala	Xaa	Cys
	130					135					140				

Leu Pro

145

<210> 644

<211> 349

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

585

<400> 644

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Lys Val Pro Val Thr Ala Thr Ala Ala Gly Val Cys Val Trp Gln Gly
 1             5             10             15

Ala Arg Pro Gly Glu Arg Gly Val Ser Arg Cys Arg Ser Trp Gln Cys
      20             25             30

Arg Arg Trp Trp Ser Thr Pro Trp Cys Cys Ser Val Trp Trp Ile Ile
      35             40             45

Ser Thr Glu Ser Ala Arg Leu Glu Thr Arg Ser Val Leu Leu Val Cys
      50             55             60

Phe Trp Gly His Gly Lys Arg Lys Tyr Leu Met Tyr Arg Thr Val Leu
 65             70             75             80

His Ser Phe Asp Glu Asp Asp Lys Asp Asp Ser Val Trp Phe Leu Asp
      85             90             95

His Asp Tyr Leu Glu Asn Met Tyr Gly Met Phe Lys Lys Xaa Asn Ala
      100            105            110

Arg Glu Arg Ile Val Gly Trp Tyr His Thr Gly Pro Lys Leu His Lys
      115            120            125

Asn Asp Ile Ala Ile Asn Glu Leu Met Lys Arg Tyr Cys Pro Asn Ser
      130            135            140

Val Leu Val Ile Ile Asp Val Lys Pro Lys Asp Leu Gly Leu Pro Thr
      145            150            155            160

Glu Ala Tyr Ile Ser Val Glu Glu Val His Asp Asp Gly Thr Pro Thr
      165            170            175

Ser Lys Thr Phe Glu His Val Thr Ser Glu Ile Gly Ala Glu Glu Ala
      180            185            190

Glu Glu Val Gly Val Glu His Leu Leu Arg Asp Ile Lys Asp Thr Thr
      195            200            205

Val Gly Thr Leu Ser Gln Arg Ile Thr Asn Gln Val His Gly Leu Lys
      210            215            220

Gly Leu Asn Ser Lys Leu Leu Asp Ile Arg Ser Tyr Leu Glu Lys Val
      225            230            235            240

Ala Thr Gly Lys Leu Pro Ile Asn His Gln Ile Ile Tyr Gln Leu Gln
      245            250            255

Asp Val Phe Asn Leu Leu Pro Asp Val Ser Leu Gln Glu Phe Val Lys
      260            265            270

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Ala Phe Tyr Leu Lys Thr Asn Asp Gln Met Val Val Val Tyr Leu Ala
275 280 285

Ser Leu Ile Arg Ser Val Val Ala Leu His Asn Leu Ile Asn Asn Lys
290 295 300

Ile Ala Asn Arg Asp Ala Glu Lys Lys Glu Gly Gln Glu Lys Glu Glu
305 310 315 320

Ser Lys Lys Asp Arg Lys Glu Asp Lys Glu Lys Asp Lys Asp Lys Glu
325 330 335

Lys Ser Asp Val Lys Lys Glu Glu Lys Lys Glu Lys Lys
340 345

<210> 645

<211> 124

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (121)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 645

Arg Cys Ser Ser Pro Ala Asp Thr Arg Arg Gly Cys Glu Val Glu Gln
1 5 10 15

Trp Asp Ser Asp Glu Pro Ile Pro Ala Lys Glu Leu Glu Arg Gly Val
20 25 30

Ala Gly Ala His Gly Leu Leu Cys Leu Leu Ser Asp His Val Asp Lys
35 40 45

Arg Ile Leu Asp Ala Ala Gly Ala Asn Leu Lys Val Ile Ser Thr Met
50 55 60

Ser Val Gly Ile Asp His Leu Ala Leu Asp Glu Ile Lys Lys Arg Gly
65 70 75 80

Ile Arg Val Gly Tyr Xaa Pro Asp Val Leu Thr Asp Xaa Xaa Ala Glu
85 90 95

Leu Ala Val Ser Leu Leu Xaa Xaa Xaa Cys Arg Arg Xaa Pro Glu Ala
100 105 110

Ser Glu Glu Val Lys Asn Gly Gly Xaa Xaa Ser Trp
115 120

<210> 646

<211> 89

<212> PRT

<213> Homo sapiens

<400> 646

Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly

588

1 5 10 15
Ser Thr His Ala Ser Ala Ala Ile Arg Leu Phe Ser Val Arg Leu Gly
20 25 30
Arg Gly Gln Gly Arg Ser Ser His Pro Cys Val Glu Gly Ser Arg Cys
35 40 45
Ala Ser Glu Gln Leu Leu Cys Ser Glu Val Leu Gly Gly Ser Asp Cys
50 55 60
Ala Ile Ile Val Ile Lys Glu Lys Thr Arg Pro Pro Ser Phe Leu Pro
65 70 75 80
Cys Trp Pro Leu Phe Ile Glu Phe Tyr
85

<210> 647

<211> 126

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (67)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
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 <222> (70)
 <223> Xaa equals any of the naturally occurring L-amino acids

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 <222> (82)
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 <220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
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 <222> (98)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
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 <222> (102)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (103)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (117)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 647
 Ala Arg Ala Ala Pro Arg Arg Ala Glu Pro Thr Glu Pro Ala Leu Arg
 1 5 10 15
 Arg Pro Ser Ser Ala Asp Arg Pro Leu Ala Pro Gly Pro Ser Ser Ser
 20 25 30
 Pro Xaa Ala Gly Arg Ala Pro Xaa Xaa Xaa Ala Ser Pro Ser Xaa Ser

590

35	40	45
Ser Glu Ala Thr Gly Lys Pro Arg Gly Arg Asp Gly Xaa Pro Arg Arg		
50	55	60
Glu Glu Xaa Asp Val Xaa Pro Glu Glu Lys Arg Leu Arg Leu Leu Leu		
65	70	75
Glu Xaa Gly Ser Ala Gln Pro Xaa Asp Cys Glu Asp Gly Glu Asp Ala		
85	90	95
Pro Xaa Pro Gly Arg Xaa Xaa Thr Gly Thr Gln Thr Gly Gly Asp Gly		
100	105	110
Arg Gly Val Ser Xaa Ala Gly Ala Gly Val Arg Gly Cys Arg		
115	120	125

<210> 648

<211> 121

<212> PRT

<213> Homo sapiens

<400> 648

Lys Ile Leu Asn Met Gln Lys Ser Cys Glu Glu Asn Glu Gly Lys Pro		
1	5	10
Gln Asn Met Pro Lys Ala Glu Glu Asp Arg Pro Leu Glu Asp Val Pro		
20	25	30
Gln Glu Ala Glu Gly Asn Pro Gln Pro Ser Glu Glu Gly Val Ser Arg		
35	40	45
Glu Ala Glu Gly Asn Pro Arg Gly Gly Pro Asn Gln Pro Gly Gln Gly		
50	55	60
Phe Lys Glu Asp Thr Pro Val Arg His Leu Asp Pro Glu Glu Met Ile		
65	70	75
Arg Gly Val Asp Glu Leu Glu Arg Leu Arg Glu Glu Ile Arg Arg Val		
85	90	95
Arg Asn Lys Phe Val Met Met His Trp Lys Gln Arg His Ser Arg Ser		
100	105	110
Arg Pro Tyr Pro Val Cys Phe Arg Pro		
115	120	

<210> 649
 <211> 236
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (31)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (114)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 649
 Thr Gln Met Arg Trp Asn Cys Leu Arg Arg Arg Met Gln Cys Trp Thr
 1 5 10 15
 Arg Thr Arg Met Ser Val Trp Thr Arg Leu Pro Cys Gly Ser Xaa Thr
 20 25 30
 Glu Met Gly Phe Pro Glu Asn Arg Ala Thr Lys Ala Leu Gln Leu Asn
 35 40 45
 His Met Ser Val Pro Gln Ala Met Glu Trp Leu Ile Glu His Ala Glu
 50 55 60
 Asp Pro Thr Ile Asp Thr Pro Leu Pro Gly Gln Ala Pro Pro Glu Ala
 65 70 75 80
 Glu Gly Ala Thr Ala Ala Ala Ser Glu Ala Ala Ala Gly Ala Ser Ala
 85 90 95
 Thr Asp Glu Glu Ala Arg Asp Glu Leu Thr Glu Ile Phe Lys Lys Ile
 100 105 110
 Arg Xaa Lys Arg Glu Phe Arg Ala Asp Ala Arg Ala Val Ile Ser Leu
 115 120 125
 Met Glu Met Gly Phe Asp Glu Lys Glu Val Ile Asp Ala Leu Arg Val
 130 135 140
 Asn Asn Asn Gln Gln Asn Ala Ala Cys Glu Trp Leu Leu Gly Asp Arg
 145 150 155 160
 Lys Pro Ser Pro Glu Glu Leu Asp Lys Gly Ile Asp Pro Asp Ser Pro
 165 170 175
 Leu Phe Gln Ala Ile Leu Asp Asn Pro Val Val Gln Leu Gly Leu Thr
 180 185 190

Asn Pro Lys Thr Leu Leu Ala Phe Glu Asp Met Leu Glu Asn Pro Leu
 195 200 205

Asn Ser Thr Gln Trp Met Asn Asp Pro Glu Thr Gly Pro Val Met Leu
 210 215 220

Gln Ile Ser Arg Ile Phe Gln Thr Leu Asn Arg Thr
 225 230 235

<210> 650

<211> 119

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 650

Ser Ser Val Cys Met Ala Cys Thr Tyr Val Ser Asn Leu Gly Lys Lys
 1 5 10 15

Gln Arg Ser Val Ser Phe Leu Ala Ser Gly Leu Met Arg Val Ser Thr
 20 25 30

Gly Pro Glu Leu Arg Leu His His Ser Phe Val Leu Thr Gly Asp Val
 35 40 45

Gly Arg Arg Ile Cys Arg Leu Leu Val Gly Leu Phe Thr Lys Gly Asp
 50 55 60

Thr Ser Ser Lys Arg Val His Pro Phe Ser Pro Gly Pro Cys Phe Leu
 65 70 75 80

Leu Cys Asp Leu Ala Arg Val Gly Ser Ser Pro Lys Ile Asn Val Ser
 85 90 95

Pro Phe Tyr Gln Asn Gln Thr Ser Thr Gln Arg Xaa Leu Leu Ser Leu
 100 105 110

Cys Gly Lys Asp Val Pro Leu
 115

<210> 651

<211> 62

593

<212> PRT

<213> Homo sapiens

<400> 651

Asn Val Lys Gly Gln Gln Glu Pro Val Phe Leu Met Ser Ser Cys Thr
1 5 10 15

Arg His Lys Ser Lys Ala Asn Thr Ser Leu Lys Ser Arg Asn Lys Tyr
20 25 30

Phe Ser Arg Phe Leu Leu Gly His Ile Leu Thr Ala Leu Gly Ile Leu
35 40 45

Ile Trp Ser Pro Asn Thr Lys Asp Pro Phe Arg Ala Cys Tyr
50 55 60

<210> 652

<211> 64

<212> PRT

<213> Homo sapiens

<400> 652

Trp Leu Asn Asn Leu Thr Arg Leu Thr Arg Thr Val Asn Lys Leu Tyr
1 5 10 15

Val Gln Asp Tyr Asn Leu Asp Ser Leu Thr Val Glu Pro Ala Pro Leu
20 25 30

Ile Ala Ile Gln Tyr His Asn His His His His His His Pro Tyr Cys
35 40 45

Leu Ser Asp Arg Phe Leu Gly Tyr Trp Leu Asp Glu Thr Glu Tyr Met
50 55 60

<210> 653

<211> 117

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (114)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 653

Tyr	Phe	Glu	Arg	Trp	Pro	Pro	Ala	Gly	Thr	Gly	Pro	Glu	Phe	Pro	Gly
1				5					10					15	

Arg	Pro	Thr	Arg	Pro	Xaa	Pro	Gln	Ala	Val	Arg	Ala	Gly	Ala	Val	Arg
			20				25						30		

Lys	Leu	Asp	Ala	Asp	Glu	Asp	Gly	Leu	Pro	Tyr	Leu	Cys	Thr	Gly	Tyr
		35					40					45			

Asp	Leu	Tyr	Val	Thr	Arg	Glu	Pro	Cys	Ala	Met	Cys	Ala	Met	Ala	Leu
	50					55				60					

Val	His	Ala	Arg	Ile	Leu	Arg	Val	Phe	Tyr	Gly	Ala	Pro	Ser	Pro	Asp
65				70					75					80	

Gly	Ala	Leu	Gly	Thr	Arg	Phe	Arg	Ile	His	Ala	Arg	Xaa	Asp	Leu	Asn
			85					90					95		

His	Arg	Phe	Gln	Val	Phe	Arg	Gly	Val	Leu	Glu	Glu	Gln	Cys	Arg	Trp
		100					105						110		

Leu	Xaa	Pro	Asp	Thr
	115			

<210> 654

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 654

Val	Asp	Pro	Arg	Val	Arg	Thr	His	Ala	Ser	Val	Lys	Met	Val	Val	Leu
1				5					10					15	

Ile	Asp	Tyr	Lys	Arg	Lys	Phe	Tyr	Arg	Ile	Arg	Ile	Xaa	Lys	Thr	Thr
			20					25					30		

Xaa	Gly	Ile	Gly	Trp	Gln	Cys	Gln	Leu	Ala	Leu	Phe	Phe	Asn	Ile	Leu
	35						40					45			

Leu	Phe	Leu	Leu	Thr	Leu	Leu	Tyr	Glu	Gly	Thr	Gly	Ile	Lys	Xaa	Thr
	50					55					60				

Asp	Ile	Pro	Phe
65			

<210> 655

<211> 29

<212> PRT

<213> Homo sapiens

<400> 655

Pro	Val	Trp	Trp	His	Ala	Pro	Val	Val	Pro	Ala	Thr	Arg	Glu	Ala	Glu
1				5					10					15	

Arg	Gly	Glu	Leu	Leu	Glu	Pro	Ser	Lys	Gln	Arg	Leu	Gln
		20						25				

<210> 656

<211> 110

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 656

Ala	Arg	Gly	Arg	Thr	Ala	Pro	Thr	Arg	Gly	Arg	Gly	Asn	Gln	Gly	Gly
1				5					10					15	

596

Ser Arg Glu Thr Leu Thr Glu Val Pro Trp Glu Pro Val Val Arg Arg
 20 25 30
 Ala Glu Leu Cys Gly Gln Thr Arg Gly Pro Cys Pro Pro Pro Val Lys
 35 40 45
 Pro Cys Cys Ser Arg Gly Ser His Glu Ala Glu Arg Glu Glu Cys Ser
 50 55 60
 Pro Leu Cys Thr Gln Arg Leu Pro Ser Gly Pro His Gly Leu Pro Ala
 65 70 75 80
 His Leu Gly Gly Pro Arg Asp Pro Thr Asp Pro Gln Trp His Trp Pro
 85 90 95
 Lys Met Leu Val Cys Pro Gln Gly Gln Xaa Ala Ile Leu Leu
 100 105 110

<210> 657

<211> 132

<212> PRT

<213> Homo sapiens

<400> 657

Ile Ser Trp Val Cys Leu Asn Cys Gln Ser Gln His Leu Leu Lys Ala
 1 5 10 15
 Pro Leu Ser Ser Ser Gly His Ser Gly Arg Ile Met Gly Glu Thr Glu
 20 25 30
 Gly Lys Lys Asp Glu Ala Asp Tyr Lys Arg Leu Gln Thr Phe Pro Leu
 35 40 45
 Val Arg His Ser Asp Met Pro Glu Glu Met Arg Val Glu Thr Met Glu
 50 55 60
 Leu Cys Val Thr Ala Cys Glu Lys Phe Ser Asn Asn Asn Glu Ser Ala
 65 70 75 80
 Ala Lys Met Ile Lys Glu Thr Met Asp Lys Lys Phe Gly Ser Ser Trp
 85 90 95
 His Val Val Ile Gly Glu Gly Phe Gly Phe Glu Ile Thr His Glu Val
 100 105 110
 Lys Asn Leu Leu Tyr Leu Tyr Phe Gly Gly Thr Leu Ala Val Cys Val
 115 120 125

Trp Lys Cys Ser
130

<210> 658

<211> 161

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 658

Ala	Gln	Pro	Thr	Gln	Phe	Pro	Glu	Xaa	Gly	Ala	Val	Xaa	Ala	Leu	Gly
1				5					10					15	

Pro	Arg	Gly	Gln	Gly	Gly	Ser	Ser	Leu	Pro	Thr	Pro	Pro	Trp	Leu	Ser
		20						25					30		

Ser	Thr	Ser	Trp	Ala	Ala	Thr	Ala	Pro	Ser	Pro	His	Ile	Ala	Thr	Tyr
	35						40					45			

Leu	Glu	Ala	Asp	Val	Ala	Lys	Pro	Ala	Arg	Glu	Pro	Thr	Trp	Glu	Val
	50					55						60			

Ala	Arg	Thr	Xaa	Trp	Gly	Pro	Arg	Thr	Leu	Val	Pro	Pro	Ser	Ile	Thr
65					70					75				80	

Met	Trp	Val	Leu	Lys	Thr	Leu	Asp	Cys	Leu	Pro	Asp	Ala	Pro	Lys	Pro
				85					90					95	

Asp	Leu	Pro	Gly	Trp	Gly	Gly	Glu	Asn	Pro	Thr	Ser	Pro	Asp	Leu	His
		100						105					110		

His	Leu	His	His	His	His	His	His	His	His	His	His	Tyr	His	His	His
	115						120					125			

Pro Thr Gly Ala Arg Val Gly Lys Ile Ser Pro Leu Asp Gln Thr Ala

130 135 140
 Pro Ser Met Glu Lys Leu Glu Lys Asn Ser Gly Thr His Ile Gln Ala
 145 150 155 160

Trp

<210> 659

<211> 171

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 659

Pro Pro Ala Pro Pro Val His Ile Ser Ile Met Glu Gly His Tyr Tyr
 1 5 10 15

Asp Pro Leu Gln Phe Gln Gly Pro Ile Tyr Thr His Gly Asp Ser Pro
 20 25 30

Ala Pro Leu Pro Pro Gln Gly Met Leu Val Gln Pro Xaa Met Asn Leu
 35 40 45

Pro His Pro Gly Leu His Pro His Gln Thr Pro Ala Pro Leu Pro Asn
 50 55 60

Pro Gly Leu Tyr Pro Pro Pro Val Ser Met Ser Pro Gly Gln Pro Pro
 65 70 75 80

Pro Gln Gln Leu Leu Ala Pro Thr Tyr Phe Ser Ala Pro Gly Val Met
 85 90 95

Asn Phe Gly Asn Pro Ser Tyr Pro Tyr Ala Pro Gly Ala Leu Pro Pro
 100 105 110

Pro Pro Pro Pro His Leu Tyr Pro Asn Thr Gln Ala Pro Ser Gln Val
 115 120 125

Tyr Gly Gly Val Thr Tyr Tyr Asn Pro Ala Gln Gln Gln Val Gln Pro
 130 135 140

Lys Pro Ser Pro Pro Arg Arg Thr Pro Gln Pro Val Thr Ile Lys Pro
 145 150 155 160

599

Pro Pro Pro Glu Val Val Ser Arg Gly Ser Ser
 165 170

<210> 660

<211> 215

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (188)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 660

Glu Ser Cys Leu Ser Ala Thr Gln Asp Ile Met Ala Ala His Leu Val
 1 5 10 15

Lys Arg Cys Thr Cys Leu Leu Arg Glu Ala Ala Arg Gln Ala Pro Ala
 20 25 30

Met Ala Pro Val Gly Arg Leu Arg Leu Ala Trp Val Ala His Lys Thr
 35 40 45

Leu Thr Ser Ser Ala Thr Ser Pro Ile Ser His Leu Pro Gly Ser Leu
 50 55 60

Met Glu Pro Val Glu Lys Glu Arg Ala Ser Thr Pro Tyr Ile Glu Lys
 65 70 75 80

Gln Val Asp His Xaa Ile Lys Lys Ala Thr Arg Pro Glu Glu Leu Leu
 85 90 95

Glu Leu Leu Gly Gly Ser His Asp Leu Asp Ser Asn Gln Ala Ala Met
 100 105 110

Val Leu Ile Arg Leu Ser His Leu Leu Ser Glu Lys Pro Glu Asp Lys
 115 120 125

Gly Leu Leu Ile Gln Asp Ala His Phe His Gln Leu Leu Cys Leu Leu
 130 135 140

Asn Ser Gln Ile Ala Ser Val Trp His Gly Thr Leu Ser Lys Leu Leu
 145 150 155 160

600

Gly Ser Leu Tyr Ala Leu Gly Ile Pro Lys Ala Ser Lys Glu Leu Gln
 165 170 175

Ser Val Glu Gln Glu Val Arg Trp Arg Met Arg Xaa Ala Gln Val Gln
 180 185 190

Ala Pro Gly Leu Pro Gly Arg Val Leu Cys His Pro Leu Thr Gly Ala
 195 200 205

Ala Leu Ala Gly Ala Ala Gly
 210 215

<210> 661

<211> 272

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (261)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (262)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 661

Asp Ala Gly Pro Leu Met Gly Thr Ser Arg Asp Gly Asp Thr Thr Arg
 1 5 10 15

Gln Arg Ile Lys Phe Ser Asp Asp Arg Val Cys Lys Ser His Leu Leu
 20 25 30

Asn Cys Cys Pro His Asp Val Leu Ser Gly Thr Arg Met Asp Leu Gly
 35 40 45

Glu Cys Leu Lys Val His Asp Leu Ala Leu Arg Ala Asp Tyr Glu Ile
 50 55 60

Ala Ser Lys Glu Gln Asp Phe Phe Phe Glu Leu Asp Ala Met Asp His
 65 70 75 80

Leu Gln Ser Phe Ile Ala Asp Cys Asp Arg Arg Thr Glu Val Ala Lys
 85 90 95

Lys Arg Leu Ala Glu Thr Gln Glu Glu Ile Ser Ala Glu Val Ala Ala
 100 105 110

601

Lys Ala Glu Arg Val His Glu Leu Asn Glu Glu Ile Gly Lys Leu Leu
115 120 125

Ala Lys Val Glu Gln Leu Gly Ala Glu Gly Asn Val Glu Glu Ser Gln
130 135 140

Lys Val Met Asp Glu Val Glu Lys Ala Arg Ala Lys Lys Arg Glu Ala
145 150 155 160

Glu Glu Val Tyr Arg Asn Ser Met Pro Ala Ser Ser Phe Gln Gln Gln
165 170 175

Lys Leu Arg Val Cys Glu Val Cys Ser Ala Tyr Leu Gly Leu His Asp
180 185 190

Asn Asp Arg Arg Leu Ala Asp His Phe Gly Gly Lys Leu His Leu Gly
195 200 205

Phe Ile Glu Ile Arg Glu Lys Leu Glu Glu Leu Lys Arg Val Val Ala
210 215 220

Glu Lys Gln Glu Lys Arg Asn Gln Glu Arg Leu Lys Arg Arg Glu Glu
225 230 235 240

Arg Glu Arg Glu Glu Arg Glu Lys Leu Arg Arg Ser Arg Ser His Ser
245 250 255

Lys Asn Pro Lys Xaa Xaa Arg Ser Arg Glu Arg Ser Lys Arg Arg Tyr
260 265 270

<210> 662

<211> 152

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 662

602

Thr Glu Pro Ala Ala Gly Val Ala Val Pro Phe Ala Leu Xaa Gln His
 1 5 10 15
 Gly Arg Val Pro Ala Arg Ala Gly Pro Gly Ala Arg Leu Val Pro Ala
 20 25 30
 Arg Pro His Arg His Leu Arg Ala His Gly Glu Gln Ala Gln Ser Leu
 35 40 45
 Asp Glu Lys Gln Lys Arg Glu Glu Glu Lys Lys Ala Glu Phe Glu
 50 55 60
 Arg Gln Arg Lys Ile Arg Gln Gln Glu Ile Glu Glu Lys Leu Ile Glu
 65 70 75 80
 Glu Glu Thr Ala Arg Arg Val Glu Xaa Leu Val Ala Lys Arg Val Glu
 85 90 95
 Glu Glu Leu Glu Lys Arg Lys Asp Glu Ile Glu Arg Glu Val Leu Arg
 100 105 110
 Arg Val Glu Glu Ala Lys Arg Ile Met Glu Lys Gln Leu Leu Glu Glu
 115 120 125
 Leu Glu Arg Gln Arg Gln Ala Glu Leu Ala Ala Gln Lys Ala Arg Glu
 130 135 140
 Val Thr Leu Gly Pro Phe Gly Lys
 145 150

<210> 663

<211> 59

<212> PRT

<213> Homo sapiens

<400> 663

Pro Gln Thr Phe Asp Tyr Tyr Met Cys Ile Gly Asp Phe Asp His Pro
 1 5 10 15
 Phe Leu Ile Phe Asp Phe Cys Val Thr Tyr Cys His Leu Leu Asn Cys
 20 25 30
 Trp Pro Thr Arg Thr Gly Ser Ile Val Trp Gly Val Gly Glu Ser Leu
 35 40 45
 His Lys Glu Glu Lys Lys Leu Ser Gly Ile Leu
 50 55

603

<210> 664

<211> 72

<212> PRT

<213> Homo sapiens

<400> 664

Cys Asn Leu Leu Ile Met Pro Glu Gly Lys His Tyr Phe His Thr Leu
 1 5 10 15

Leu Phe Leu Tyr Leu Asn Phe Leu Lys Lys Lys Ser Ser Ile Ala Leu
 20 25 30

His Ser Phe Leu Ser Asp Ala Asp Leu Ser Phe Phe Ser Pro Phe Ile
 35 40 45

Leu Asn Thr Met Leu His Met Asn Val Glu Ala Asp Thr Leu His Ser
 50 55 60

Ser Val Asp Ile Thr Thr Pro Met
 65 70

<210> 665

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 665

Gly Glu Thr Arg Gly Arg Cys Met Gln Thr Ser Leu Glu Leu Trp Ser
 1 5 10 15

Leu Leu Thr Phe Leu Pro Gln Ala Pro Leu Pro Arg Gly Pro Val Thr
 20 25 30

Ile Leu His Arg Asp Tyr Pro Lys Thr Gln Arg Leu Ser Cys Ala Cys
 35 40 45

Arg Xaa Ala Gln Pro Val Leu Ile Ala Ala Leu Leu Phe Asn Gln Arg
 50 55 60

Asp Val Asn Asp Gln Val Ile Phe Ala Arg Phe Val Phe Asn Ile Phe
 65 70 75 80

His Leu Tyr Arg

604

<210> 666
<211> 122
<212> PRT
<213> Homo sapiens

<400> 666
Ala Ser Gly Gly Gly Leu Ser Asn Ser His Leu Glu Ser Pro Phe Cys
1 5 10 15
Leu Phe Lys Ser Pro Ser Glu Gly His Ser Tyr Gln Asn Ser Gly Leu
20 25 30
Asp His Phe Gln Asn Ser Asn Ile Asp Gln Ser Phe Trp Glu Thr Phe
35 40 45
Gly Ser Ala Glu Pro Thr Lys Thr Arg Lys Ser Pro Ser Ser Asp Ser
50 55 60
Trp Thr Cys Ala Asp Thr Ser Thr Glu Arg Arg Ser Ser Asp Ser Trp
65 70 75 80
Glu Val Trp Gly Ser Ala Ser Thr Asn Arg Asn Ser Asn Ser Asp Gly
85 90 95
Gly Glu Gly Gly Glu Gly Thr Lys Lys Ala Val Pro Pro Ala Val Pro
100 105 110
Thr Asp Asp Gly Trp Asp Asn Gln Asn Trp
115 120

<210> 667
<211> 82
<212> PRT
<213> Homo sapiens

<400> 667
Arg Trp Gly Ile Cys Glu Lys Asp Val Pro Phe Ile Ile Tyr Ala Ile
1 5 10 15
Tyr Ser Arg Cys Phe Glu Arg Leu Gln Lys Arg Arg Pro Ala Ser Leu
20 25 30
Ala Asp Lys Phe Ile Ile Ile Leu Gln Lys Cys Ala Gly Cys Ala Leu
35 40 45

605

Ala Asn Cys Thr Val Leu Phe Thr Pro Ala Trp Val Thr Glu Gln Asp
 50 55 60

Ser Arg Leu Gly Gly Leu Lys Lys Lys Lys Met Leu Tyr Leu Asn Glu
 65 70 75 80

Ser Val

<210> 668
 <211> 566
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (178)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (357)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (518)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 668
 Ser Thr His Ala Ser Gly Glu Val Val Lys Pro Ala Ala Val Leu Ser
 1 5 10 15

Lys Gly Glu Ile Val Val Lys Asn Asn Pro Asn Glu Ser Val Thr Ala
 20 25 30

Asn Ala Ala Thr Asn Ser Pro Ser Cys Thr Arg Ala Asp Pro Lys Asn
 35 40 45

Val Ser Ile Pro Ser Ser Glu Ala Leu Ser Ser Asp Pro Ser Tyr Asn
 50 55 60

Lys Glu Lys His Ile Ile His Pro Thr Gln Lys Ser Lys Ala Ser Gln
 65 70 75 80

Gly Ser Asp Leu Glu Gln Asn Glu Ala Ser Arg Lys Asn Lys Lys Lys
 85 90 95

Lys Glu Lys Ser Thr Ser Lys Tyr Glu Val Leu Thr Val Gln Glu Pro

606

100	105	110
Pro Arg Ile Glu Asp Ala Glu Glu Phe Pro Asn Leu Ala Val Ala Ser		
115	120	125
Glu Arg Arg Asp Arg Ile Glu Thr Pro Lys Phe Gln Ser Lys Gln Gln		
130	135	140
Pro Gln Asp Asn Phe Lys Asn Asn Val Lys Lys Ser Gln Leu Pro Val		
145	150	155
Gln Leu Asp Leu Gly Gly Met Leu Thr Ala Leu Glu Lys Lys Gln His		
165	170	175
Ser Xaa His Ala Lys Gln Ser Ser Lys Pro Val Val Val Ser Val Gly		
180	185	190
Ala Val Pro Val Leu Ser Lys Glu Cys Ala Ser Gly Glu Arg Gly Arg		
195	200	205
Arg Met Ser Gln Met Lys Thr Pro His Asn Pro Leu Asp Ser Ser Ala		
210	215	220
Pro Leu Met Lys Lys Gly Lys Gln Arg Glu Ile Pro Lys Ala Lys Lys		
225	230	235
Pro Thr Ser Leu Lys Lys Ile Ile Leu Lys Glu Arg Gln Glu Arg Lys		
245	250	255
Gln Arg Leu Gln Glu Asn Ala Val Ser Pro Ala Phe Thr Ser Asp Asp		
260	265	270
Thr Gln Asp Gly Glu Ser Gly Gly Asp Asp Gln Phe Pro Glu Gln Ala		
275	280	285
Glu Leu Ser Gly Pro Glu Gly Met Asp Glu Leu Ile Ser Thr Pro Ser		
290	295	300
Val Glu Asp Lys Ser Glu Glu Pro Pro Gly Thr Glu Leu Gln Arg Asp		
305	310	315
Thr Glu Ala Ser His Leu Ala Pro Asn His Thr Thr Phe Pro Lys Ile		
325	330	335
His Ser Arg Arg Phe Arg Asp Tyr Cys Ser Gln Met Leu Ser Lys Glu		
340	345	350
Val Asp Ala Cys Xaa Thr Asp Leu Leu Lys Glu Leu Val Arg Phe Gln		
355	360	365
Asp Arg Met Tyr Gln Lys Asp Pro Val Lys Ala Lys Thr Lys Arg Arg		

607

370		375		380
Leu Val Leu Gly Leu Arg Glu Val Leu Lys His Leu Lys Leu Lys Lys				
385		390		400
Leu Lys Cys Val Ile Ile Ser Pro Asn Cys Glu Lys Ile Gln Ser Lys				
	405		410	415
Gly Gly Leu Asp Asp Thr Leu His Thr Ile Ile Asp Tyr Ala Cys Glu				
	420		425	430
Gln Asn Ile Pro Phe Val Phe Ala Leu Asn Arg Lys Ala Leu Gly Arg				
	435		440	445
Ser Leu Asn Lys Ala Val Pro Val Ser Val Val Gly Ile Phe Ser Tyr				
	450		455	460
Asp Gly Ala Gln Asp Gln Phe His Lys Met Val Glu Leu Thr Val Ala				
465		470		475
Ala Arg Gln Ala Tyr Lys Thr Met Leu Glu Asn Val Gln Gln Glu Leu				
	485		490	495
Val Gly Glu Pro Arg Pro Gln Ala Pro Pro Ser Leu Pro Thr Gln Gly				
	500		505	510
Pro Ser Cys Pro Ala Xaa Asp Gly Pro Pro Ala Leu Lys Glu Lys Glu				
	515		520	525
Glu Pro His Tyr Ile Glu Ile Trp Lys Lys His Leu Glu Ala Tyr Ser				
	530		535	540
Gly Cys Thr Leu Glu Leu Glu Glu Ser Leu Glu Ala Ser Thr Ser Gln				
545		550		555
Met Met Asn Leu Asn Leu				
	565			

<210> 669

<211> 114

<212> PRT

<213> Homo sapiens

<400> 669

Gly Phe Trp Asp Ser Gly Leu Cys Gly Leu Cys Leu Leu Ala Gly Asn
1 5 10 15

Gly Leu Ser Leu Ser Arg Pro Ala Pro Pro Arg Leu Cys Leu Ser Glu
20 25 30

608

Ala Pro Glu Pro Ser Ser Asp Leu Gln Asn Val Ala Ser Asp Gly Gly
 35 40 45
 Leu Gly Trp Glu Met Gly Arg Ala Tyr Ile Val Phe Cys Ser Leu Lys
 50 55 60
 Thr Leu Ile Ala Pro Ile Phe Gln Arg Met Val Leu Cys Glu Gln His
 65 70 75 80
 Ala Ser Lys Arg Glu Ile Gly Gly Arg Gly Ser Arg Gly Gly Trp Glu
 85 90 95
 Lys Ser Gly Ser Phe Leu Pro Leu Thr Ala Leu Thr Phe Cys Glu Arg
 100 105 110
 Glu Ala

<210> 670
 <211> 154
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (146)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (153)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 670
 Asn Gln Arg Leu Leu Asn Asn Leu Pro Ser Phe Pro Ile Phe Cys Gly
 1 5 10 15
 Pro Thr Thr Leu Gly Asp Pro Arg Leu Gly Gly Ala Pro Pro Gly Leu
 20 25 30
 Ser Arg Ser Phe Arg Leu Pro Pro Leu Pro Ala Ala Met Ala Glu Leu
 35 40 45
 Gly Leu Asn Glu His His Gln Asn Glu Val Ile Asn Tyr Met Arg Phe
 50 55 60
 Ala Arg Ser Lys Arg Gly Leu Arg Leu Lys Thr Val Asp Ser Cys Phe
 65 70 75 80

Gln Asp Leu Lys Glu Ser Arg Leu Val Glu Asp Thr Phe Thr Ile Asp
85 90 95

Glu Val Ser Glu Val Leu Asn Gly Leu Gln Ala Val Val His Ser Glu
100 105 110

Val Glu Ser Glu Leu Ile Asn Thr Ala Tyr Thr Asn Val Leu Leu Leu
115 120 125

Arg His Cys Leu His Lys Leu Arg Ser Gly Ile Leu Ser Tyr Arg Gln
130 135 140

Thr Xaa Leu Asn Leu Lys Thr Glu Xaa Tyr
145 150

<210> 671
<211> 80
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (70)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (72)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (78)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (80)

610

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 671

Cys	Arg	Gln	Glu	Arg	Ala	Val	Ala	Pro	Ala	Arg	Arg	Ala	Met	Glu	Arg
1				5					10					15	

Ile	Pro	Ser	Ala	Gln	Pro	Pro	Pro	Ala	Cys	Leu	Pro	Lys	Ala	Pro	Gly
			20					25					30		

Leu	Glu	His	Gly	Asp	Leu	Pro	Gly	Met	Tyr	Pro	Ala	His	Met	Tyr	Gln
		35					40					45			

Val	Tyr	Lys	Ser	Arg	Arg	Gly	Ile	Lys	Arg	Xaa	Xaa	Asp	Ser	Lys	Glu
	50					55					60				

Thr	Tyr	Lys	Leu	Pro	Xaa	Arg	Xaa	Ile	Glu	Lys	Arg	Asp	Xaa	Thr	Xaa
65					70					75					80

<210> 672

<211> 224

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (220)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 672

Glu	Pro	Ala	Glu	Gly	Pro	Ser	Ser	Cys	Asp	Pro	Ile	Cys	Pro	Ala	Gly
1				5						10				15	

Leu	Lys	Ala	Leu	Ser	Leu	Cys	Val	Ala	Leu	Pro	Pro	Gly	Leu	Ala	Val
			20					25					30		

Ser	Val	Leu	Lys	Ala	Ile	Phe	Gln	Glu	Val	His	Val	Gln	Ser	Leu	Pro
		35				40						45			

Gln	Val	Asp	Arg	His	Thr	Val	Tyr	Asn	Ile	Ile	Thr	Asn	Phe	Met	Arg
	50					55					60				

Thr	Arg	Glu	Glu	Glu	Leu	Lys	Ser	Leu	Gly	Ala	Asp	Phe	Thr	Phe	Gly
65					70				75						80

Phe	Ile	Gln	Val	Met	Asp	Gly	Glu	Lys	Asp	Pro	Arg	Asn	Leu	Leu	Val
				85					90						95

611

Ala Phe Arg Ile Val His Asp Leu Ile Ser Arg Asp Tyr Ser Leu Gly
100 105 110

Pro Phe Val Glu Glu Leu Phe Glu Val Thr Ser Cys Tyr Phe Pro Ile
115 120 125

Asp Phe Thr Pro Pro Pro Asn Asp Pro His Gly Ile Gln Arg Glu Asp
130 135 140

Leu Ile Leu Ser Leu Arg Ala Val Leu Ala Ser Thr Pro Arg Phe Ala
145 150 155 160

Glu Phe Leu Leu Pro Leu Leu Ile Glu Lys Val Asp Ser Glu Val Leu
165 170 175

Ser Ala Lys Leu Asp Ser Leu Gln Thr Leu Asn Ala Cys Cys Ala Val
180 185 190

Tyr Gly Gln Lys Glu Leu Lys Asp Phe Leu Pro Ser Leu Trp Ala Ser
195 200 205

Ile Arg Arg Glu Val Phe Gln Thr Ala Val Ser Xaa Trp Arg Gln Arg
210 215 220

<210> 673

<211> 498

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (405)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (414)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (445)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 673

Xaa Leu Ser Asp Gly Arg Leu Arg Val Gly Tyr Val Ser Ser Asp Phe
 1 5 10 15

Gly Asn His Pro Thr Ser His Leu Met Gln Ser Ile Pro Gly Met His
 20 25 30

Asn Pro Asp Lys Phe Glu Val Phe Cys Tyr Ala Leu Ser Pro Asp Asp
 35 40 45

Gly Thr Asn Phe Arg Val Lys Val Met Ala Glu Ala Asn His Phe Ile
 50 55 60

Asp Leu Ser Gln Ile Pro Cys Asn Gly Lys Ala Ala Asp Arg Ile His
 65 70 75 80

Gln Asp Gly Ile His Ile Leu Val Asn Met Asn Gly Tyr Thr Lys Gly
 85 90 95

Ala Arg Asn Glu Leu Phe Ala Leu Arg Pro Ala Pro Ile Gln Ala Met
 100 105 110

Trp Leu Gly Tyr Pro Gly Thr Ser Gly Ala Leu Phe Met Asp Tyr Ile
 115 120 125

Ile Thr Asp Gln Glu Thr Ser Pro Ala Glu Val Ala Glu Gln Tyr Ser
 130 135 140

Glu Lys Leu Ala Tyr Met Pro His Thr Phe Phe Ile Gly Asp His Ala
 145 150 155 160

Asn Met Phe Pro His Leu Lys Lys Lys Ala Val Ile Asp Phe Lys Ser
 165 170 175

Asn Gly His Ile Tyr Asp Asn Arg Ile Val Leu Asn Gly Ile Asp Leu
 180 185 190

Lys Ala Phe Leu Asp Ser Leu Pro Asp Val Lys Ile Val Lys Met Lys
 195 200 205

Cys Pro Asp Gly Gly Asp Asn Ala Asp Ser Ser Asn Thr Ala Leu Asn
 210 215 220

Met Pro Val Ile Pro Met Asn Thr Ile Ala Glu Ala Val Ile Glu Met
 225 230 235 240

Ile Asn Arg Gly Gln Ile Gln Ile Thr Ile Asn Gly Phe Ser Ile Ser

[illegible]

614

<210> 674
 <211> 146
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (15)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 674
 Arg Asp Pro Ala Gly Ser Pro Ser Ala Ala Gly Gly Leu Ala Xaa Val
 1 5 10 15
 Ser Leu Ala Leu Gly Ser Gly Ser Arg Gly Arg Asp His Ser Gly Ser
 20 25 30
 Gly Val Gly Thr Ala Met Ala Gly Ala Leu Val Arg Lys Ala Ala Asp
 35 40 45
 Tyr Val Arg Ser Lys Asp Phe Arg Asp Tyr Leu Met Ser Thr His Phe
 50 55 60
 Trp Gly Pro Val Ala Asn Trp Gly Leu Pro Ile Ala Ala Ile Asn Asp
 65 70 75 80
 Met Lys Lys Ser Pro Glu Ile Ile Ser Gly Arg Met Thr Phe Ala Leu
 85 90 95
 Cys Cys Tyr Ser Leu Thr Phe Met Arg Phe Ala Tyr Lys Val Gln Pro
 100 105 110
 Arg Asn Trp Leu Leu Phe Ala Cys His Ala Thr Asn Glu Val Ala Gln
 115 120 125
 Leu Ile Gln Gly Gly Arg Leu Ile Lys His Glu Met Thr Lys Thr Ala
 130 135 140
 Ser Ala
 145

<210> 675
 <211> 107
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE

615

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 675

```

Tyr Ser Phe Asp Leu Ile Leu Cys Leu Arg Glu Cys Ser Gly Gln Val
 1             5             10             15

Leu Cys Val Val Gly Trp Gly Gly Arg Val Xaa Ser Phe Pro His Pro
          20             25             30

Cys Val Val Val Leu Leu Thr Val Ala Pro Trp Asp Trp Leu Pro Phe
          35             40             45

Leu Leu Gly Glu Pro Gly Glu Pro Ala His Leu Val Ser Arg Val Cys
          50             55             60

Ala Trp Arg Ser Ala Pro Pro Ala Leu Met Ala Leu Cys His Arg Gln
 65             70             75             80

Arg Pro Gly Gly Ala Val Cys Ala Gln Pro Lys His Phe Thr Phe Phe
          85             90             95

Thr Leu Phe Phe Phe Phe Asn Gln Leu Ile Val
          100             105

```

<210> 676

<211> 90

<212> PRT

<213> Homo sapiens

<400> 676

```

Asn Thr Ser His Ile Ser Tyr Leu Thr Arg Leu Ser Trp Ser Cys Arg
 1             5             10             15

Phe His Cys Pro Pro Lys Thr Arg Thr His Thr Tyr Pro Tyr Thr Lys
          20             25             30

Gly Lys Thr Ile Leu Lys Cys Cys Phe Ser Gly Gly Ser Leu Ser Gly
          35             40             45

Cys Cys Leu Thr Val Trp Glu Pro Val Leu Cys Arg Gly Asp Arg Pro
          50             55             60

Asp Leu His Tyr Leu Thr Thr Leu Ala Leu Gly Ala Asn Cys Pro Thr
 65             70             75             80

Val Lys Cys Leu Gly Gly Cys Pro Ile Pro
          85             90

```

616

<210> 677

<211> 362

<212> PRT

<213> Homo sapiens

<400> 677

Ile Ile Met Ala Pro Leu Gly Thr Thr Val Leu Leu Trp Ser Leu Leu
 1 5 10 15

Arg Ser Ser Pro Gly Val Glu Arg Val Cys Phe Arg Ala Arg Ile Gln
 20 25 30

Pro Trp His Gly Gly Leu Leu Gln Pro Leu Pro Cys Ser Phe Glu Met
 35 40 45

Gly Leu Pro Arg Arg Arg Phe Ser Ser Glu Ala Ala Glu Ser Gly Ser
 50 55 60

Pro Glu Thr Lys Lys Pro Thr Phe Met Asp Glu Glu Val Gln Ser Ile
 65 70 75 80

Leu Thr Lys Met Thr Gly Leu Asn Leu Gln Lys Thr Phe Lys Pro Ala
 85 90 95

Ile Gln Glu Leu Lys Pro Pro Thr Tyr Lys Leu Met Thr Gln Ala Gln
 100 105 110

Leu Glu Glu Ala Thr Arg Gln Ala Val Glu Ala Ala Lys Val Arg Leu
 115 120 125

Lys Met Pro Pro Val Leu Glu Glu Arg Val Pro Ile Asn Asp Val Leu
 130 135 140

Ala Glu Asp Lys Ile Leu Glu Gly Thr Glu Thr Thr Lys Tyr Val Phe
 145 150 155 160

Thr Asp Ile Ser Tyr Ser Ile Pro His Arg Glu Arg Phe Ile Val Val
 165 170 175

Arg Glu Pro Ser Gly Thr Leu Arg Lys Ala Ser Trp Glu Glu Arg Asp
 180 185 190

Arg Met Ile Gln Val Tyr Phe Pro Lys Glu Gly Arg Lys Ile Leu Thr
 195 200 205

Pro Ile Ile Phe Lys Glu Glu Asn Leu Arg Thr Met Tyr Ser Gln Asp
 210 215 220

Arg His Val Asp Val Leu Asn Leu Cys Phe Ala Gln Phe Glu Pro Asp

617

225 230 235 240
 Ser Thr Glu Tyr Ile Lys Val His His Lys Thr Tyr Glu Asp Ile Asp
 245 250 255
 Lys Arg Gly Lys Tyr Asp Leu Leu Arg Ser Thr Arg Tyr Phe Gly Gly
 260 265 270
 Met Val Trp Tyr Phe Val Asn Asn Lys Lys Ile Asp Gly Leu Leu Ile
 275 280 285
 Asp Gln Ile Gln Arg Asp Leu Ile Asp Asp Ala Thr Asn Leu Val Gln
 290 295 300
 Leu Tyr His Val Leu His Pro Asp Gly Gln Ser Ala Gln Gly Ala Lys
 305 310 315 320
 Asp Gln Ala Ala Glu Gly Ile Asn Leu Ile Lys Val Phe Ala Lys Thr
 325 330 335
 Glu Ala Gln Lys Gly Ala Tyr Ile Glu Leu Thr Leu Gln Thr Tyr Gln
 340 345 350
 Glu Ala Leu Ser Arg His Ser Ala Ala Ser
 355 360

<210> 678

<211> 53

<212> PRT

<213> Homo sapiens

<400> 678

Leu Gln Val Asp Glu Arg Arg Met Phe Met Phe Leu Tyr Gly Leu Asn
 1 5 10 15
 Lys Ser Val Ile Thr Met Leu Thr Cys Ser Val Ile Lys Cys Thr Asn
 20 25 30
 Gly Ser Leu Cys His Ser Phe Ile Phe Ser Gly Tyr Gln Asp Ser Gln
 35 40 45
 Ile Lys Leu Leu Met
 50

<210> 679

<211> 395

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (370)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (377)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 679

Xaa	Cys	Arg	His	Ser	Ser	Leu	Ile	Phe	Pro	Pro	Val	Ser	Ala	Ser	Ser
1				5					10					15	

Ser	Ser	Phe	Gln	Trp	Phe	Gln	Ser	Thr	Val	Ser	Lys	Glu	Asp	Ala	Met
		20						25					30		

Pro	Glu	Ala	Leu	Lys	Ser	Leu	Ile	Phe	Pro	Asn	Phe	Glu	Pro	Leu	His
		35					40					45			

Lys	Phe	His	Thr	Asn	Phe	Leu	Lys	Glu	Ile	Glu	Gln	Arg	Leu	Ala	Leu
	50					55					60				

Trp	Glu	Gly	Arg	Ser	Asn	Ala	Gln	Ile	Arg	Asp	Tyr	Gln	Arg	Ile	Gly
	65				70					75					80

Asp	Val	Met	Leu	Lys	Asn	Ile	Gln	Gly	Met	Lys	His	Leu	Ala	Ala	His
			85						90						95

Leu	Trp	Lys	His	Ser	Glu	Ala	Leu	Glu	Ala	Leu	Glu	Asn	Gly	Ile	Lys
		100					105						110		

Ser	Ser	Arg	Arg	Leu	Glu	Asn	Phe	Cys	Arg	Asp	Phe	Glu	Leu	Gln	Lys
		115					120					125			

Val	Cys	Tyr	Leu	Pro	Leu	Asn	Thr	Phe	Leu	Leu	Arg	Pro	Leu	His	Arg
	130					135					140				

Leu	Met	His	Tyr	Lys	Gln	Val	Leu	Glu	Arg	Leu	Cys	Lys	His	His	Pro
	145				150					155					160

Pro	Ser	His	Ala	Asp	Phe	Arg	Asp	Cys	Arg	Ala	Ala	Leu	Ala	Glu	Ile
				165					170						175

Thr Glu Met Val Ala Gln Leu His Gly Thr Met Ile Lys Met Glu Asn
 180 185 190

Phe Gln Lys Leu His Glu Leu Lys Lys Asp Leu Ile Gly Ile Asp Asn
 195 200 205

Leu Val Val Pro Gly Arg Glu Phe Ile Arg Leu Gly Ser Leu Ser Lys
 210 215 220

Leu Ser Gly Lys Gly Leu Gln Gln Arg Met Phe Phe Leu Phe Asn Asp
 225 230 235 240

Val Leu Leu Tyr Thr Ser Arg Gly Leu Thr Ala Ser Asn Gln Phe Lys
 245 250 255

Val His Gly Gln Leu Pro Leu Tyr Gly Met Thr Ile Glu Glu Ser Glu
 260 265 270

Asp Glu Trp Gly Val Pro His Cys Leu Thr Leu Arg Gly Gln Arg Gln
 275 280 285

Ser Ile Ile Val Ala Ala Ser Ser Arg Ser Glu Met Glu Lys Trp Val
 290 295 300

Glu Asp Ile Gln Met Ala Ile Asp Leu Ala Glu Lys Ser Ser Ser Pro
 305 310 315 320

Ala Pro Glu Phe Leu Ala Ser Ser Pro Pro Asp Asn Lys Ser Pro Asp
 325 330 335

Glu Ala Thr Ala Ala Asp Gln Glu Ser Glu Asp Asp Leu Ser Ala Ser
 340 345 350

Pro His Arg Trp Ser Ala Arg Pro Arg Thr Ala Ala Thr Gln Trp Cys
 355 360 365

Thr Xaa Ala Gly Thr Ala Thr Pro Xaa Ser Pro Trp Trp Thr Ser Ala
 370 375 380

Ser Gln Trp Arg Ile Ser Cys Leu Glu Thr Cys
 385 390 395

<210> 680

<211> 156

<212> PRT

<213> Homo sapiens

<400> 680

Ala Arg Gly Lys Met Glu Asp Glu Glu Val Ala Glu Ser Trp Glu Glu

620

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1             5             10             15
Ala Ala Asp Ser Gly Glu Ile Asp Arg Arg Leu Glu Lys Lys Leu Lys
      20             25             30
Ile Thr Gln Lys Glu Ser Arg Lys Ser Lys Ser Pro Pro Lys Val Pro
      35             40             45
Ile Val Ile Gln Asp Asp Ser Leu Pro Ala Gly Pro Pro Pro Gln Ile
      50             55             60
Arg Ile Leu Lys Arg Pro Thr Ser Asn Gly Val Val Ser Ser Pro Asn
      65             70             75             80
Ser Thr Ser Arg Pro Thr Leu Pro Val Lys Ser Leu Ala Gln Arg Glu
      85             90             95
Ala Glu Tyr Ala Glu Ala Arg Lys Arg Ile Leu Gly Ser Ala Ser Pro
      100            105            110
Glu Glu Glu Gln Glu Lys Pro Ile Leu Asp Arg Pro Thr Arg Ile Ser
      115            120            125
Gln Pro Glu Asp Ser Arg Gln Pro Asn Asn Val Ile Arg Gln Pro Leu
      130            135            140
Gly Pro Asp Gly Ser Gln Gly Phe Lys Gln Arg Arg
      145            150            155

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<210> 681

<211> 144

<212> PRT

<213> Homo sapiens

<400> 681

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Ser Ala Met Ala Ala Ala Ala Glu Gly Val Leu Ala Thr Arg Ser Asp
1             5             10             15
Glu Pro Ala Arg Asp Asp Ala Ala Val Glu Thr Ala Glu Glu Ala Lys
      20             25             30
Glu Pro Ala Glu Ala Asp Ile Thr Glu Leu Cys Arg Asp Met Phe Ser
      35             40             45
Lys Met Ala Thr Tyr Leu Thr Gly Glu Leu Thr Ala Thr Ser Glu Asp
      50             55             60
Tyr Lys Leu Leu Glu Asn Met Asn Lys Leu Thr Ser Leu Lys Tyr Leu
      65             70             75             80

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621

Glu Met Lys Asp Ile Ala Ile Asn Ile Ser Arg Asn Leu Lys Asp Leu
85 90 95
Asn Gln Lys Tyr Ala Gly Leu Gln Pro Tyr Leu Asp Gln Ile Asn Val
100 105 110
Ile Glu Glu Gln Val Ala Ala Leu Glu Gln Ala Ala Tyr Lys Leu Asp
115 120 125
Ala Tyr Ser Lys Lys Leu Glu Ala Lys Tyr Lys Lys Leu Glu Lys Arg
130 135 140

<210> 682

<211> 178

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (177)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 682

Arg Ala Trp Ser Pro Ser Gly Arg Ala Tyr Asp Pro Ala Asp Tyr Glu
1 5 10 15
His Leu Pro Val Ser Ala Glu Ile Lys Glu Leu Phe Gln Tyr Ile Ser
20 25 30
Arg Tyr Thr Pro Gln Leu Ile Asp Leu Asp His Lys Leu Lys Pro Phe
35 40 45
Ile Pro Asp Phe Ile Pro Ala Val Gly Asp Ile Asp Ala Phe Leu Lys
50 55 60
Val Pro Arg Pro Asp Gly Lys Pro Asp Asn Leu Gly Leu Leu Val Leu
65 70 75 80
Asp Glu Pro Ser Thr Lys Gln Ser Asp Pro Thr Val Leu Ser Leu Trp
85 90 95
Leu Thr Glu Asn Ser Lys Gln His Asn Ile Thr Gln His Met Lys Val
100 105 110
Lys Ser Leu Glu Asp Ala Glu Lys Asn Pro Lys Ala Ile Asp Thr Trp

622

115		120		125
Ile Glu Ser Ile Ser Glu Leu His Arg Ser Lys Pro Pro Ala Thr Val				
130		135		140
His Tyr Thr Arg Pro Met Pro Asp Ile Asp Thr Leu Met Gln Glu Trp				
145		150		155
				160
Ser Pro Glu Phe Glu Glu Leu Leu Gly Lys Val Ser Leu Pro Thr Ala				
	165		170	175

Xaa Asp

<210> 683

<211> 452

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 683

Gln Phe Tyr Leu Leu Phe Asn Lys Glu Ala Leu Ser Asn Met Asp Asp
1 5 10 15

Tyr Asp Lys Thr Cys Leu Glu Ser Ala Leu Val Gly Val Cys Asn Ile
20 25 30

Val Gln Gln Glu Trp Gly Gly Ala Ile Pro Cys Gln Val Val Leu Val
35 40 45

Thr Asp Gly Cys Leu Gly Ile Gly Arg Xaa Ser Leu Arg His Ser Leu
50 55 60

Ala Thr Gln Asn Gln Arg Ser Glu Ser Asn Arg Phe Pro Leu Pro Phe
65 70 75 80

Pro Phe Pro Ser Lys Leu Tyr Ile Met Cys Met Ala Asn Leu Glu Glu
85 90 95

Leu Gln Ser Thr Asp Ser Leu Glu Cys Leu Glu Arg Leu Ile Asp Leu
100 105 110

Asn Asn Gly Glu Gly Gln Ile Phe Thr Ile Asp Gly Pro Leu Cys Leu
115 120 125

Lys Asn Val Gln Ser Met Phe Gly Lys Leu Ile Asp Leu Ala Tyr Thr
 130 135 140
 Pro Phe His Ala Val Leu Lys Cys Gly His Leu Thr Ala Asp Val Gln
 145 150 155 160
 Val Phe Pro Arg Pro Glu Pro Phe Val Val Asp Glu Glu Ile Asp Pro
 165 170 175
 Ile Pro Lys Val Ile Asn Thr Asp Leu Glu Ile Val Gly Phe Ile Asp
 180 185 190
 Ile Ala Asp Ile Ser Ser Pro Pro Val Leu Ser Arg His Leu Val Leu
 195 200 205
 Pro Ile Ala Leu Asn Lys Glu Gly Asp Glu Val Gly Thr Gly Ile Thr
 210 215 220
 Asp Asp Asn Glu Asp Glu Asn Ser Ala Asn Gln Ile Ala Gly Lys Ile
 225 230 235 240
 Pro Asn Phe Cys Val Leu Leu His Gly Ser Leu Lys Val Glu Gly Met
 245 250 255
 Val Ala Ile Val Gln Leu Gly Pro Glu Trp His Gly Met Leu Tyr Ser
 260 265 270
 Gln Ala Asp Ser Lys Lys Lys Ser Asn Leu Met Met Ser Leu Phe Glu
 275 280 285
 Pro Gly Pro Glu Pro Leu Pro Trp Leu Gly Lys Met Ala Gln Leu Gly
 290 295 300
 Pro Ile Ser Asp Ala Lys Glu Asn Pro Tyr Gly Glu Asp Asp Asn Lys
 305 310 315 320
 Ser Pro Phe Pro Leu Gln Pro Lys Asn Lys Arg Ser Tyr Ala Gln Asn
 325 330 335
 Val Thr Val Trp Ile Lys Pro Ser Gly Leu Gln Thr Asp Val Gln Lys
 340 345 350
 Ile Leu Arg Asn Ala Arg Lys Leu Pro Glu Lys Thr Gln Thr Phe Tyr
 355 360 365
 Lys Glu Leu Asn Arg Leu Arg Lys Ala Ala Leu Ala Phe Gly Phe Leu
 370 375 380
 Asp Leu Leu Lys Gly Val Ala Asp Met Leu Glu Arg Glu Cys Thr Leu
 385 390 395 400

624

Leu Pro Glu Thr Ala His Pro Asp Ala Ala Phe Gln Leu Thr His Ala
 405 410 415

Ala Gln Gln Leu Lys Leu Ala Ser Thr Gly Thr Ser Glu Tyr Ala Ala
 420 425 430

Tyr Asp Gln Asn Ile Thr Pro Leu His Thr Asp Phe Ser Gly Ser Ser
 435 440 445

Thr Glu Arg Ile
 450

<210> 684

<211> 427

<212> PRT

<213> Homo sapiens

<400> 684

Thr Gly Ser Glu Phe Pro Gly Arg Pro Thr Arg Pro Gly Thr Lys Ala
 1 5 10 15

Gly Tyr Lys Leu Phe Ser Leu Ser Ser Val Glu Gln Leu Asp Gln Val
 20 25 30

His Gly Ser Asn Glu Ile Pro Asp Val Tyr Ile Val Glu Arg Leu Phe
 35 40 45

Ser Ser Ser Leu Val Val Val Val Ser His Thr Lys Pro Arg Gln Met
 50 55 60

Asn Val Tyr His Phe Lys Lys Gly Thr Glu Ile Cys Asn Tyr Ser Tyr
 65 70 75 80

Ser Ser Asn Ile Leu Ser Ile Arg Leu Asn Arg Gln Arg Leu Leu Val
 85 90 95

Cys Leu Glu Glu Ser Ile Tyr Ile His Asn Ile Lys Asp Met Lys Leu
 100 105 110

Leu Lys Thr Leu Leu Asp Ile Pro Ala Asn Pro Thr Gly Leu Cys Ala
 115 120 125

Leu Ser Ile Asn His Ser Asn Ser Tyr Leu Ala Tyr Pro Gly Ser Leu
 130 135 140

Thr Ser Gly Glu Ile Val Leu Tyr Asp Gly Asn Ser Leu Lys Thr Val
 145 150 155 160

Cys Thr Ile Ala Ala His Glu Gly Thr Leu Ala Ala Ile Thr Phe Asn

625

	165		170		175
Ala Ser Gly Ser Lys Leu Ala Ser Ala Ser Glu Lys Gly Thr Val Ile					
	180		185		190
Arg Val Phe Ser Val Pro Asp Gly Gln Lys Leu Tyr Glu Phe Arg Arg					
	195		200		205
Gly Met Lys Arg Tyr Val Thr Ile Ser Ser Leu Val Phe Ser Met Asp					
	210		215		220
Ser Gln Phe Leu Cys Ala Ser Ser Asn Thr Glu Thr Val His Ile Phe					
	225		230		235
Lys Leu Glu Gln Val Thr Asn Ser Arg Pro Glu Glu Pro Ser Thr Trp					
	245		250		255
Ser Gly Tyr Met Gly Lys Met Phe Met Ala Ala Thr Asn Tyr Leu Pro					
	260		265		270
Thr Gln Val Ser Asp Met Met His Gln Asp Arg Ala Phe Ala Thr Ala					
	275		280		285
Arg Leu Asn Phe Ser Gly Gln Arg Asn Ile Cys Thr Leu Ser Thr Ile					
	290		295		300
Gln Lys Leu Pro Arg Leu Leu Val Ala Ser Ser Ser Gly His Leu Tyr					
	305		310		315
Met Tyr Asn Leu Asp Pro Gln Asp Gly Gly Glu Cys Val Leu Ile Lys					
	325		330		335
Thr His Ser Leu Leu Gly Ser Gly Thr Thr Glu Glu Asn Lys Glu Asn					
	340		345		350
Asp Leu Arg Pro Ser Leu Pro Gln Ser Tyr Ala Ala Thr Val Ala Arg					
	355		360		365
Pro Ser Ala Ser Ser Ala Ser Thr Val Pro Gly Tyr Ser Glu Asp Gly					
	370		375		380
Gly Ala Leu Arg Gly Glu Val Ile Pro Glu His Glu Phe Ala Thr Gly					
	385		390		395
Pro Val Cys Leu Asp Asp Glu Asn Glu Phe Pro Pro Ile Ile Leu Cys					
	405		410		415
Arg Gly Asn Gln Lys Gly Lys Thr Lys Gln Ser					
	420		425		

626

<210> 685

<211> 321

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (154)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 685

```

Gly Gly Arg Ala Gly Gln Ser Lys Asp Ala Asp Leu Arg Pro Gly Asp
 1           5           10           15

Ile Ile Val Ala Ile Asn Gly Glu Ser Ala Glu Gly Met Leu His Ala
      20           25           30

Glu Ala Gln Ser Lys Ile Arg Gln Ser Pro Ser Pro Leu Arg Leu Gln
      35           40           45

Leu Asp Arg Ser Gln Ala Thr Ser Pro Gly Gln Thr Asn Gly Asp Ser
      50           55           60

Ser Leu Glu Val Leu Ala Thr Arg Phe Gln Gly Ser Val Arg Thr Tyr
      65           70           75           80

Thr Glu Ser Gln Ser Ser Leu Arg Ser Ser Tyr Ser Ser Pro Thr Ser
      85           90           95

Leu Ser Pro Arg Ala Gly Ser Pro Phe Ser Pro Pro Pro Ser Ser Ser
      100           105           110

Ser Leu Thr Gly Glu Ala Ala Ile Ser Arg Ser Phe Gln Ser Leu Ala
      115           120           125

Cys Ser Pro Gly Leu Pro Ala Ala Asp Arg Leu Ser Tyr Ser Gly Arg
      130           135           140

Pro Gly Ser Arg Gln Ala Gly Leu Gly Xaa Ala Gly Asp Ser Ala Val
      145           150           155           160

Leu Val Leu Pro Pro Ser Pro Gly Pro Arg Ser Ser Arg Pro Ser Met
      165           170           175

Asp Ser Glu Gly Gly Ser Leu Leu Leu Asp Glu Asp Ser Glu Val Phe
      180           185           190

Lys Met Leu Gln Glu Asn Arg Glu Gly Arg Ala Ala Pro Arg Gln Ser
      195           200           205

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627

Ser Ser Phe Arg Leu Leu Gln Glu Ala Leu Glu Ala Glu Glu Arg Gly
 210 215 220
 Gly Thr Pro Ala Phe Leu Pro Ser Ser Leu Ser Pro Gln Ser Ser Leu
 225 230 235 240
 Pro Ala Ser Arg Ala Leu Ala Thr Pro Pro Lys Leu His Thr Cys Glu
 245 250 255
 Lys Cys Ser Thr Ser Ile Ala Asn Gln Ala Val Arg Ile Gln Glu Gly
 260 265 270
 Arg Tyr Arg His Pro Gly Cys Tyr Thr Cys Ala Asp Cys Gly Leu Asn
 275 280 285
 Leu Lys Met Arg Gly His Phe Trp Val Gly Asp Glu Leu Tyr Cys Glu
 290 295 300
 Lys His Ala Arg Gln Arg Tyr Ser Ala Pro Ala Thr Leu Ser Ser Arg
 305 310 315 320
 Ala

<210> 686

<211> 71

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 686

Phe His Pro Ser Tyr Trp Phe Val Cys Asn Glu Trp Leu Lys Ile Arg
 1 5 10 15

Val Ile Phe Tyr Pro Gln Met Arg Phe Cys Thr Phe Arg Ala Gly Leu
 20 25 30

Asn Xaa Phe Phe Phe Phe Leu Tyr Pro Asn Cys Trp Pro His Gly
 35 40 45

Asn Pro Phe Pro Asp Leu Cys Ser Thr Ile Tyr Trp Gln Asn Gly Arg
 50 55 60

Val Ala Ala Lys Gln Phe Val
 65 70

<210> 687

<211> 272

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 687

Ala Leu Gly Gly Phe Val Arg Leu Leu Pro Arg Cys Phe Gly Phe Pro
 1 5 10 15

Gly Ser Ser Ala Leu Phe Ser Pro Val Ala Ala Gly Ser Gly Arg Ser
 20 25 30

Ala Xaa Trp Asp Phe Leu Leu Ser Pro Glu Glu Phe Asn Thr Asn Met
 35 40 45

Asp Ile Arg Pro Asn His Thr Ile Tyr Ile Asn Asn Met Asn Asp Lys
 50 55 60

Ile Lys Lys Glu Glu Leu Lys Arg Ser Leu Tyr Ala Leu Phe Ser Gln
 65 70 75 80

Phe Gly His Val Val Asp Ile Val Ala Leu Lys Thr Met Lys Met Arg
 85 90 95

Gly Gln Ala Phe Val Ile Phe Lys Glu Leu Gly Ser Ser Thr Asn Ala
 100 105 110

Leu Arg Gln Leu Gln Gly Phe Pro Phe Tyr Gly Lys Pro Met Arg Ile
 115 120 125

Gln Tyr Ala Lys Thr Asp Ser Asp Ile Ile Ser Lys Met Arg Gly Thr
 130 135 140

Phe Ala Asp Lys Glu Lys Lys Lys Glu Lys Lys Lys Ala Lys Thr Val
 145 150 155 160

Glu Gln Thr Ala Thr Thr Asn Lys Lys Pro Gly Gln Gly Thr Pro
 165 170 175

Asn Ser Ala Asn Thr Gln Gly Asn Ser Thr Pro Asn Pro Gln Val Pro
 180 185 190

Asp Tyr Pro Pro Asn Tyr Ile Leu Phe Leu Asn Asn Leu Pro Glu Glu

195	200	205
Thr Asn Glu Met Met Leu Ser Met Leu Phe Asn Gln Phe Pro Gly Phe		
210	215	220
Lys Glu Val Arg Leu Val Pro Gly Arg His Asp Ile Ala Phe Val Glu		
225	230	235 240
Phe Glu Asn Asp Gly Gln Ala Gly Ala Ala Arg Asp Ala Leu Gln Gly		
	245	250 255
Phe Lys Ile Thr Pro Ser His Ala Met Lys Ile Thr Tyr Ala Lys Lys		
	260	265 270

<210> 688

<211> 173

<212> PRT

<213> Homo sapiens

<400> 688

His Leu Phe Cys Arg Ile Val Lys Asn Glu Val Leu Phe Leu Glu Tyr		
1	5	10 15
Leu Thr Gly Cys Leu Ala Ser Arg Arg Cys Leu Ala Lys Ala Leu Pro		
	20	25 30
Glu Met Asp Ser Arg Ile Pro Tyr Asp Asp Tyr Pro Val Val Phe Leu		
	35	40 45
Pro Ala Tyr Glu Asn Pro Pro Ala Trp Ile Pro Pro His Glu Arg Val		
	50	55 60
His His Pro Asp Tyr Asn Asn Glu Leu Thr Gln Phe Leu Pro Arg Thr		
	65	70 75 80
Ile Thr Leu Lys Lys Pro Pro Gly Ala Gln Leu Gly Phe Asn Ile Arg		
	85	90 95
Gly Gly Lys Ala Ser Gln Leu Gly Ile Phe Ile Ser Lys Val Ile Pro		
	100	105 110
Asp Ser Asp Ala His Arg Ala Gly Leu Gln Glu Gly Asp Gln Val Leu		
	115	120 125
Ala Val Asn Asp Val Asp Phe Gln Asp Ile Glu His Ser Lys Ala Val		
	130	135 140

630

Glu Ile Leu Lys Thr Ala Arg Glu Ile Ser Met Arg Val Arg Phe Phe
145 150 155 160

Pro Tyr Asn Tyr His Arg Gln Lys Glu Arg Thr Val His
165 170

<210> 689

<211> 66

<212> PRT

<213> Homo sapiens

<400> 689

Val Thr Glu Arg Gly Ala Arg Gly Arg Ala Arg Ser Ile Pro Leu Ser
1 5 10 15

Leu Glu Glu Thr Thr Ala Ser Asp Leu Arg Cys Gly Arg Gly Arg Gln
20 25 30

Val Pro Ser Val Glu Gly Gln His Ala Gly Ser Thr Trp Gly Gly Gly
35 40 45

Ala Leu Arg Asp Ser Arg Cys Asn Trp Asp Arg Ser Arg Glu Leu Gln
50 55 60

Phe Pro
65

<210> 690

<211> 94

<212> PRT

<213> Homo sapiens

<400> 690

Gly Arg Gly Phe Leu Ser His Lys Asn Glu Ile Leu Glu Ile Ala Leu
1 5 10 15

Asp Gln Lys Gly Leu Thr Asn Asp Arg Lys Ile Ala Phe Ile Asp Lys
20 25 30

Asn Arg Asp Leu Cys Ile Thr Ser Val Lys Gly Phe Gly Lys Glu Glu
35 40 45

Gln Ile Ile Lys Leu Gly Asn Asn Gly Ala Tyr Phe Gly Met Glu Arg
50 55 60

Tyr Met Gln Tyr Pro Leu Trp Thr Ser Arg Tyr Ser Ile Tyr Ser Val

631

65	70	75	80										
Val	Leu	Pro	Gln	Tyr	Ser	Leu	Cys	Gly	Gln	Arg	His	Phe	Ala
				85					90				

<210> 691

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 691

Asn	Gln	Asn	Gly	Val	His	Val	Ile	Leu	Phe	Asp	Ile	Ser	Ser	Pro	Ala
1				5				10						15	

Gln	Thr	Ile	Pro	Glu	Gly	Ile	Lys	Phe	Ile	Gln	Gly	Asp	Ile	Arg	His
			20					25					30		

Leu	Ser	Asp	Val	Glu	Xaa	Ser	Leu	Pro	Gly	Cys	Arg	Arg	Xaa	Leu	Cys
		35					40					45			

Val	Xaa	Xaa	Leu	Xaa	Leu	Met	Val	Met	Phe	Arg	Ala	Gly	Ala	Asn	Ser
	50					55						60			

Ile Glu

632

65

<210> 692

<211> 124

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 692

Thr Lys Gln Gly Glu Lys Lys Glu Leu Gly Gln Asn Arg Arg Arg Phe
1 5 10 15

Pro Thr Arg Ile His Pro Arg Pro Arg Asp Thr Gln Ser Pro His Pro
20 25 30

Gln Pro Ala Arg Ala Ser Arg Pro Gln Leu Leu Ala Leu Gly Thr Ala
35 40 45

Gly Ser Pro Ala Arg Thr Arg His Lys Ala Asp Gln Ser Arg Arg Arg
50 55 60

Gly Gly Gly Gly Thr Thr Arg Arg Gly Phe Pro Gly Arg Cys Ser Pro
65 70 75 80

Pro Ala Ala Pro Ser Leu Gly Xaa Gly Gly Arg Leu Val Trp Phe Ser
85 90 95

Arg Pro Leu Ala Pro Thr Pro Thr Pro Pro Lys Gln Asn Arg Pro Pro
100 105 110

Ser Leu Gly Trp Arg Thr Arg Leu Leu Ala Ala Ser
115 120

<210> 693

<211> 56

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

633

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 693

Ser	Met	Arg	Thr	Glu	Ile	Ser	Val	Leu	Tyr	Arg	Leu	Pro	Ser	Leu	Cys
1				5					10					15	

Cys	Ser	Val	Ile	Leu	Xaa	Lys	Gln	Met	Glu	Thr	Asp	Gly	Ser	Ala	Xaa
			20				25						30		

Ser	Thr	Arg	Gly	Thr	Glu	Xaa	Arg	Gly	Glu	Val	Ser	Pro	Ala	Ile	Ala
		35					40					45			

Asn	Gln	Ala	Arg	Gly	Gly	Gly	Gly
	50					55	

<210> 694

<211> 70

<212> PRT

<213> Homo sapiens

<400> 694

Val	Thr	Ser	Ser	Cys	Thr	Leu	Arg	Glu	Gly	Ser	Ser	Ser	Cys	Ser	Gln
1				5					10					15	

Ser	Val	Ala	Leu	Lys	Thr	Ser	Glu	Ser	Arg	Ala	Leu	Pro	Pro	Glu	Arg
			20				25						30		

Glu	Gly	Glu	Gln	Lys	Glu	Lys	Pro	Arg	Ala	Gly	Arg	Ala	Cys	Phe	Val
		35					40					45			

Cys	Trp	Phe	Gly	Phe	Phe	Ser	Phe	Ile	Phe	Phe	Phe	Arg	Glu	Asp	Ser
	50					55						60			

Phe	Lys	Leu	Ser	Ser	Lys
	65				70

<210> 695

<211> 273

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 695

Gly Arg Val Gly Met Leu Arg Leu Leu Ser Ser Leu Leu Leu Val Ala
1 5 10 15

Val Ala Ser Gly Tyr Gly Pro Pro Ser Ser Xaa Xaa Ser Ser Arg Val
20 25 30

Val Xaa Gly Glu Asp Ala Val Pro Tyr Ser Trp Pro Trp Gln Val Ser
35 40 45

Leu Gln Tyr Glu Lys Ser Gly Ser Phe Tyr His Thr Cys Gly Gly Ser
50 55 60

Leu Ile Ala Pro Asp Trp Val Val Thr Ala Gly His Cys Ile Ser Arg
65 70 75 80

Asp Leu Thr Tyr Gln Val Val Leu Gly Glu Tyr Asn Leu Ala Val Lys
85 90 95

Glu Gly Pro Glu Gln Val Ile Pro Ile Asn Ser Glu Glu Leu Phe Val
100 105 110

His Pro Leu Trp Asn Arg Ser Cys Val Ala Cys Gly Asn Asp Ile Ala
115 120 125

Leu Ile Lys Leu Ser Arg Ser Ala Gln Leu Gly Asp Ala Val Gln Leu
130 135 140

Ala Ser Leu Pro Pro Ala Gly Asp Ile Leu Pro Asn Lys Thr Pro Cys
145 150 155 160

Tyr Ile Thr Gly Trp Gly Arg Leu Tyr Thr Asn Gly Pro Leu Pro Asp
165 170 175

635

Lys Leu Gln Gln Ala Arg Leu Pro Val Val Asp Tyr Lys His Cys Ser
180 185 190

Arg Trp Asn Trp Trp Gly Ser Thr Val Lys Lys Thr Met Val Cys Ala
195 200 205

Gly Gly Tyr Ile Arg Ser Gly Cys Asn Gly Asp Ser Gly Gly Pro Leu
210 215 220

Asn Cys Pro Thr Glu Asp Gly Gly Trp Gln Val His Gly Val Thr Ser
225 230 235 240

Phe Val Ser Gly Phe Gly Cys Asn Phe Ile Trp Lys Pro Thr Val Phe
245 250 255

Thr Arg Val Ser Ala Phe Ile Asp Trp Ile Glu Glu Thr Ile Ala Ser
260 265 270

His

<210> 696
<211> 180
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (157)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (158)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (162)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (163)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 696

Tyr Leu Trp Ser Cys Pro His Asn Gly Trp Leu Ser His Asn Cys Gly
1 5 10 15

His His Glu Asp Ala Gly Val Ile Cys Ser Ala Ser Gln Ser Gln Pro
20 25 30

Thr Pro Ser Pro Asp Thr Trp Pro Thr Ser Xaa Ala Ser Thr Ala Gly
35 40 45

Ser Glu Ser Thr Leu Ala Leu Arg Leu Val Asn Gly Gly Asp Arg Cys
50 55 60

Arg Gly Arg Val Glu Val Leu Tyr Gln Gly Ser Trp Gly Thr Val Cys
65 70 75 80

Asp Asp Tyr Trp Asp Thr Asn Asp Ala Asn Val Val Cys Arg Gln Leu
85 90 95

Gly Cys Gly Trp Ala Met Ser Ala Pro Gly Asn Ala Gln Phe Gly Gln
100 105 110

Gly Ser Gly Pro Ile Val Leu Asp Asp Val Arg Cys Ser Gly His Glu
115 120 125

Ser Tyr Leu Trp Ser Cys Pro His Asn Gly Trp Leu Ser His Asn Cys
130 135 140

Gly His His Glu Asp Ala Gly Val Ile Cys Ser Ala Xaa Xaa Val Pro
145 150 155 160

Val Xaa Xaa Gln Ala Arg Tyr Leu Ala Asp His Gln Leu Thr Gly Ile
165 170 175

Asp Ser Arg Ile
180

<210> 697

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

637

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 697

Val Pro Cys Pro Pro Gly His Phe Pro Pro Met Ser Pro Asp Phe Thr
1 5 10 15

Val Phe Met Ile Lys Tyr Leu Met Thr Met Ile Val Gly Ile Thr Thr
20 25 30

Gly Phe Trp Ile Trp Ser Gly Lys Thr Leu Gln Xaa Trp Arg Arg Phe
35 40 45

Tyr His Arg Leu Ser His Ser Ser Xaa Gly Glu Thr Ala Val
50 55 60

<210> 698

<211> 134

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (121)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 698

Phe Phe Arg Ser Ser Ser Asp Asn Gly Ser Pro Ile Arg Gln Tyr Glu
1 5 10 15

Leu Gln Pro Gln His Thr Arg Gly Gln Leu Trp Ala Trp Lys Gln Glu
20 25 30

Pro Arg Asn Ser Gln Leu Arg Ile Val Leu Val Gly Lys Thr Gly Ala
35 40 45

Gly Lys Ser Ala Thr Gly Asn Ser Ile Leu Gly Arg Lys Val Phe His
50 55 60

Ser Gly Thr Ala Ala Lys Ser Ile Thr Lys Lys Cys Glu Lys Arg Ser
65 70 75 80

638

[illegible]

<210> 699

<211> 371

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 699

Asp	Gln	Phe	Ser	Arg	Ser	Leu	Asn	Asn	Ser	Ala	Thr	Val	Gln	His	Val	
1				5					10					15		
Gln	Lys	Leu	Trp	Gln	Pro	Arg	Gly	Cys	Thr	Arg	Thr	Arg	Arg	Trp	Xaa	
		20						25					30			
Ala	Glu	Glu	Arg	Gly	Arg	Glu	Pro	Gln	Gly	Gln	Ala	Gly	Gly	Gly	Ala	
		35					40					45				
Ser	Gln	Ala	Ala	Arg	Cys	Gly	Ala	Ala	Pro	Gly	Gly	Gly	Arg	Val	Glu	
	50					55					60					
Ala	Leu	Gly	Gln	Phe	Val	Met	Lys	Thr	Arg	Arg	Thr	Leu	Lys	Gly	His	
65				70					75						80	
Gly	Asn	Lys	Val	Leu	Cys	Met	Asp	Trp	Cys	Lys	Asp	Lys	Arg	Arg	Ile	
			85					90						95		
Val	Ser	Ser	Ser	Gln	Asp	Gly	Lys	Val	Ile	Val	Trp	Asp	Ser	Phe	Thr	
		100					105						110			
Thr	Asn	Lys	Glu	His	Ala	Val	Thr	Met	Pro	Cys	Thr	Trp	Val	Met	Ala	
	115					120					125					
Cys	Ala	Tyr	Ala	Pro	Ser	Gly	Cys	Ala	Ile	Ala	Cys	Gly	Gly	Leu	Asp	
130						135				140						

639

Asn Lys Cys Ser Val Tyr Pro Leu Thr Phe Asp Lys Asn Glu Asn Met
 145 150 155 160

Ala Ala Lys Lys Lys Ser Val Ala Met His Thr Asn Tyr Leu Ser Ala
 165 170 175

Cys Ser Phe Thr Asn Ser Asp Met Gln Ile Leu Thr Ala Ser Gly Asp
 180 185 190

Gly Thr Cys Ala Leu Trp Asp Val Glu Ser Gly Gln Leu Leu Gln Ser
 195 200 205

Phe His Gly His Gly Ala Asp Val Leu Cys Leu Asp Leu Ala Pro Ser
 210 215 220

Glu Thr Gly Asn Thr Phe Val Ser Gly Gly Cys Asp Lys Lys Ala Met
 225 230 235 240

Val Trp Asp Met Arg Ser Gly Gln Cys Val Gln Ala Phe Glu Thr His
 245 250 255

Glu Ser Asp Ile Asn Ser Val Arg Tyr Tyr Pro Ser Gly Asp Ala Phe
 260 265 270

Ala Ser Gly Ser Asp Asp Ala Thr Cys Arg Leu Tyr Asp Leu Arg Ala
 275 280 285

Asp Arg Glu Val Ala Ile Tyr Ser Lys Glu Ser Ile Ile Phe Gly Ala
 290 295 300

Ser Ser Val Asp Phe Ser Leu Ser Gly Arg Leu Leu Phe Ala Gly Tyr
 305 310 315 320

Asn Asp Tyr Thr Ile Asn Val Trp Asp Val Leu Lys Gly Ser Arg Val
 325 330 335

Ser Ile Leu Phe Gly His Glu Asn Arg Val Ser Thr Leu Arg Val Ser
 340 345 350

Pro Asp Gly Thr Ala Phe Cys Ser Gly Ser Trp Asp His Thr Leu Arg
 355 360 365

Val Trp Ala
 370

<210> 700

<211> 200

<212> PRT

640

<213> Homo sapiens

<400> 700

Ser Gln Ala Pro Pro Pro Pro Pro Pro Pro Ser Arg Pro Gly Pro Pro
1 5 10 15

Pro Leu Pro Pro Ser Ser Ser Gly Asn Asp Glu Thr Pro Arg Leu Pro
20 25 30

Gln Arg Asn Leu Ser Leu Ser Ser Thr Pro Pro Leu Pro Ser Pro
35 40 45

Gly Arg Ser Gly Pro Leu Pro Pro Pro Pro Ser Glu Arg Pro Pro Pro
50 55 60

Pro Val Arg Asp Pro Pro Gly Arg Ser Gly Pro Leu Pro Pro Pro Pro
65 70 75 80

Pro Val Ser Arg Asn Gly Ser Thr Ser Arg Ala Leu Pro Ala Thr Pro
85 90 95

Gln Leu Pro Ser Arg Ser Gly Val Asp Ser Pro Arg Ser Gly Pro Arg
100 105 110

Pro Pro Leu Pro Pro Asp Arg Pro Ser Ala Gly Ala Pro Pro Pro Pro
115 120 125

Pro Pro Ser Thr Ser Ile Arg Asn Gly Phe Gln Asp Ser Pro Cys Glu
130 135 140

Asp Glu Trp Glu Ser Arg Phe Tyr Phe His Pro Ile Ser Asp Leu Pro
145 150 155 160

Pro Pro Glu Pro Tyr Val Gln Thr Thr Lys Ser Tyr Pro Ser Lys Leu
165 170 175

Ala Arg Asn Glu Ser Arg Ser Gly Ser Asn Arg Arg Glu Arg Gly Ala
180 185 190

Pro Pro Leu Pro Pro Ile Pro Arg
195 200

<210> 701

<211> 660

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

641

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (397)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 701

His Tyr Phe Tyr Leu Lys Glu Arg Ile Leu Glu Leu Thr Leu Gln Arg
1 5 10 15

Arg Lys Met Val Val Ser Glu Val Asp Ile Ala Lys Ala Asp Pro Ala
20 25 30

Ala Ala Ser His Pro Leu Leu Leu Asn Gly Asp Ala Thr Val Xaa Gln
35 40 45

Lys Asn Pro Gly Ser Val Ala Glu Asn Asn Leu Cys Ser Gln Tyr Glu
50 55 60

Glu Lys Val Arg Pro Cys Ile Asp Leu Ile Asp Ser Leu Arg Ala Leu
65 70 75 80

Gly Val Glu Gln Asp Leu Ala Leu Pro Ala Ile Ala Val Ile Gly Asp
85 90 95

Gln Ser Ser Gly Lys Ser Ser Val Leu Glu Ala Leu Ser Gly Val Ala
100 105 110

Leu Pro Arg Gly Ser Gly Ile Val Thr Arg Cys Pro Leu Val Leu Lys
115 120 125

Leu Lys Lys Leu Val Asn Glu Asp Lys Trp Arg Gly Lys Val Ser Tyr
130 135 140

Gln Asp Tyr Glu Ile Glu Ile Ser Asp Ala Ser Glu Val Glu Lys Glu
145 150 155 160

Ile Asn Lys Ala Gln Asn Ala Ile Ala Gly Glu Gly Met Gly Ile Ser
165 170 175

His Glu Leu Ile Thr Leu Glu Ile Ser Ser Arg Asp Val Pro Asp Leu
180 185 190

Thr Leu Ile Asp Leu Pro Gly Ile Thr Arg Val Ala Val Gly Asn Gln
195 200 205

Pro Ala Asp Ile Gly Tyr Lys Ile Lys Thr Leu Ile Lys Lys Tyr Ile
210 215 220

Gln Arg Gln Glu Thr Ile Ser Leu Val Val Val Pro Ser Asn Val Asp
 225 230 235 240
 Ile Ala Thr Thr Glu Ala Leu Ser Met Ala Gln Glu Val Asp Pro Glu
 245 250 255
 Gly Asp Arg Thr Ile Gly Ile Leu Thr Lys Pro Asp Leu Val Asp Lys
 260 265 270
 Gly Thr Glu Asp Lys Val Val Asp Val Val Arg Asn Leu Val Phe His
 275 280 285
 Leu Lys Lys Gly Tyr Met Ile Val Lys Cys Arg Gly Gln Gln Glu Ile
 290 295 300
 Gln Asp Gln Leu Ser Leu Ser Glu Ala Leu Gln Arg Glu Lys Ile Phe
 305 310 315 320
 Phe Glu Asn His Pro Tyr Phe Arg Asp Leu Leu Glu Glu Gly Lys Ala
 325 330 335
 Thr Val Pro Cys Leu Ala Glu Lys Leu Thr Ser Glu Leu Ile Thr His
 340 345 350
 Ile Cys Lys Ser Leu Pro Leu Leu Glu Asn Gln Ile Lys Glu Thr His
 355 360 365
 Gln Arg Ile Thr Glu Glu Leu Gln Lys Tyr Gly Val Asp Ile Pro Glu
 370 375 380
 Asp Glu Asn Glu Lys Met Phe Phe Leu Ile Asp Lys Xaa Asn Ala Phe
 385 390 395 400
 Asn Gln Asp Ile Thr Ala Leu Met Gln Gly Glu Glu Thr Val Gly Glu
 405 410 415
 Glu Asp Ile Arg Leu Phe Thr Arg Leu Arg His Glu Phe His Lys Trp
 420 425 430
 Ser Thr Ile Ile Glu Asn Asn Phe Gln Glu Gly His Lys Ile Leu Ser
 435 440 445
 Arg Lys Ile Gln Lys Phe Glu Asn Gln Tyr Arg Gly Arg Glu Leu Pro
 450 455 460
 Gly Phe Val Asn Tyr Arg Thr Phe Glu Thr Ile Val Lys Gln Gln Ile
 465 470 475 480
 Lys Ala Leu Glu Glu Pro Ala Val Asp Met Leu His Thr Val Thr Asp
 485 490 495

643

Met Val Arg Leu Ala Phe Thr Asp Val Ser Ile Lys Asn Phe Glu Glu
 500 505 510
 Phe Phe Asn Leu His Arg Thr Ala Lys Ser Lys Ile Glu Asp Ile Arg
 515 520 525
 Ala Glu Gln Glu Arg Glu Gly Glu Lys Leu Ile Arg Leu His Phe Gln
 530 535 540
 Met Glu Gln Ile Val Tyr Cys Gln Asp Gln Val Tyr Arg Gly Ala Leu
 545 550 555 560
 Gln Lys Val Arg Glu Lys Glu Leu Glu Glu Lys Lys Lys Lys Ser
 565 570 575
 Trp Asp Phe Gly Ala Phe Gln Ser Ser Ser Ala Thr Asp Ser Ser Met
 580 585 590
 Glu Glu Ile Phe Gln His Leu Met Ala Tyr His Gln Glu Ala Ser Lys
 595 600 605
 Arg Ile Ser Ser His Ile Pro Leu Ile Ile Gln Phe Phe Met Leu Gln
 610 615 620
 Thr Tyr Gly Gln Gln Leu Gln Lys Ala Met Leu Gln Leu Leu Gln Asp
 625 630 635 640
 Lys Asp Thr Tyr Ser Trp Leu Leu Lys Glu Arg Ser Asp Pro Ala Thr
 645 650 655
 Ser Gly Ser Ser
 660

<210> 702

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 702

644

Glu His Tyr Ser Tyr Pro Cys Thr Pro Thr Thr Met Xaa Pro Arg Ser
 1 5 10 15
 Ala Tyr Trp His His Ile Thr Gly Ser Gln Asn Ile Ala Glu Ala Ser
 20 25 30
 Ser Tyr Ala Xaa Glu Gly Tyr Gly Ala Ala Gln Ala Ser Ser Glu Thr
 35 40 45
 Asp Leu Leu Asn Arg Phe Ile Leu Leu Lys Pro Lys Pro Ser Gln Gly
 50 55 60
 Asp Ser Ser Glu Ala Lys Thr Pro Ser Gln
 65 70

<210> 703

<211> 284

<212> PRT

<213> Homo sapiens

<400> 703

Glu Ala Ala Pro Trp Leu Glu Ala Ala Ser Val Cys Ala Val Thr Ile
 1 5 10 15
 Ile Asn Pro His Ser Ala Pro Ser Pro Asp Ala Leu Val Thr Gly Ala
 20 25 30
 Ser Trp Met Ser Asn His Val Val Gly Gly Cys Arg Leu Arg Ala Ser
 35 40 45
 Val Gly Ser Ser Thr Thr Val Ser Val Gly Ser Gly His Gly Thr Leu
 50 55 60
 Ser Pro Ser Cys Thr Trp Ser Arg Val His Ser His Pro Pro Ser Cys
 65 70 75 80
 Gly Glu Arg Leu Ala Arg Pro Gly Gln Ala Arg Gln Lys Val Ser Ala
 85 90 95
 Lys Trp Pro Arg Pro His Pro Ala Ile Ser Gln Leu Leu Phe Ile Thr
 100 105 110
 Phe Val Pro His Leu Gly Val Cys Phe Leu His Leu Asp Thr Leu Pro
 115 120 125
 Gly Arg Ser Ser Glu Pro Asn Pro Arg Leu Cys Ser Val Gly Glu Gly
 130 135 140
 Met Thr Ser Pro Pro Pro Asp Leu Pro Arg Val Leu Val Ser Leu Ser

645

145		150		155		160
Ala Gly Gly Pro Leu Cys Val Phe Val Gln Phe Cys Cys Met Gly Phe						
	165		170		175	
Val Thr Gln Lys Leu Met Leu Arg Lys Ala Ser Leu Gly Pro Leu Pro						
	180		185		190	
Arg Ala Ser Glu Arg Pro Gly Val Pro Val Phe Leu Glu Met Gly Pro						
	195		200		205	
Ser Ala Ala Gly Cys Glu Ala Leu Arg Ser Ile Thr Gly Arg Ala Trp						
	210		215		220	
Arg Trp Trp Pro Pro Gly Thr Thr Leu Ser Cys Leu Phe Thr Phe His						
	225		230		235	240
Tyr Gln Val Phe Ser Gly His Tyr Asp Leu Phe Pro Tyr Asn Ser Asp						
	245		250		255	
Leu Cys Ile Leu Leu Trp Pro Ala Val Ser Ala Gly Gly Ser Gln Arg						
	260		265		270	
Gly Thr Gly Arg Ala Ser Pro Cys Arg Thr Ala Glu						
	275		280			

<210> 704

<211> 339

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

646

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 704

Gly	Arg	Ile	Gly	Val	His	Xaa	Pro	Phe	Lys	Trp	Ser	Ser	Phe	Thr	Pro
1				5					10					15	
Pro	Arg	Pro	Ser	Xaa	Ser	Trp	Xaa	Leu	Val	Arg	Arg	Ser	Leu	Met	Ala
			20					25					30		
Pro	Val	Gln	Gly	Gly	Val	Arg	Val	Ile	Val	Gln	Pro	Pro	Glu	Asp	Cys
		35					40					45			
Gly	Ser	Gly	Leu	Gln	Leu	Phe	Gln	Xaa	Phe	Thr	Val	His	Arg	Ser	Pro
	50					55					60				
Val	Thr	Lys	Ile	Met	Leu	Ser	Glu	Lys	His	Leu	Ile	Ser	Val	Cys	Ala
65					70					75					80
Asp	Asn	Asn	His	Val	Arg	Thr	Trp	Ser	Val	Thr	Arg	Phe	Arg	Gly	Met
				85					90					95	
Ile	Ser	Thr	Gln	Pro	Gly	Ser	Thr	Pro	Leu	Ala	Ser	Phe	Lys	Ile	Leu
			100					105					110		
Ala	Leu	Glu	Ser	Ala	Asp	Gly	His	Gly	Gly	Cys	Ser	Ala	Gly	Asn	Asp
		115					120					125			
Ile	Gly	Pro	Tyr	Gly	Glu	Arg	Asp	Asp	Gln	Gln	Val	Phe	Ile	Gln	Lys
		130					135				140				
Val	Val	Pro	Ser	Ala	Ser	Gln	Leu	Phe	Val	Arg	Leu	Ser	Ser	Thr	Gly
145						150				155					160
Gln	Arg	Val	Cys	Ser	Val	Arg	Ser	Val	Asp	Gly	Ser	Pro	Thr	Thr	Ala
			165						170					175	
Phe	Thr	Val	Leu	Glu	Cys	Glu	Gly	Ser	Arg	Arg	Leu	Gly	Ser	Arg	Pro
			180					185					190		
Arg	Arg	Tyr	Leu	Leu	Thr	Gly	Gln	Ala	Asn	Gly	Ser	Leu	Ala	Met	Trp
		195					200					205			
Asp	Leu	Thr	Thr	Ala	Met	Asp	Gly	Leu	Gly	Gln	Ala	Pro	Ala	Gly	Gly
		210					215				220				
Leu	Thr	Glu	Gln	Glu	Leu	Met	Glu	Gln	Leu	Glu	His	Cys	Glu	Leu	Ala
225					230					235					240
Pro	Pro	Ala	Pro	Ser	Ala	Pro	Ser	Trp	Gly	Cys	Leu	Pro	Ser	Pro	Ser
					245				250					255	

647

Pro Arg Ile Ser Leu Thr Ser Leu His Ser Ala Ser Ser Asn Thr Ser
 260 265 270
 Leu Ser Gly His Arg Gly Ser Pro Ser Pro Pro Gln Ala Glu Ala Arg
 275 280 285
 Arg Arg Gly Gly Gly Ser Phe Val Glu Arg Cys Gln Glu Leu Val Arg
 290 295 300
 Ser Gly Pro Asp Leu Arg Arg Pro Pro Thr Pro Ala Pro Trp Pro Ser
 305 310 315 320
 Ser Gly Leu Gly Thr Pro Leu Thr Pro Pro Lys Met Lys Leu Asn Glu
 325 330 335
 Thr Ser Phe

<210> 705
 <211> 104
 <212> PRT
 <213> Homo sapiens

<400> 705
 Pro Lys Phe Arg Thr Ile Gly Ile Val Cys Leu Lys Asn Thr Tyr Lys
 1 5 10 15
 Lys Thr Leu Val Asn Ile Leu Val Met Leu Glu Arg Lys Val Leu Leu
 20 25 30
 Pro Leu Arg Leu Cys Ala Gly Ala Tyr Gly Ser Lys Val Val Tyr Cys
 35 40 45
 Pro Phe Ser Ala Ser Pro Gly Asn Asp Arg His Tyr Ser Pro Ile Gly
 50 55 60
 Leu Pro Ser Leu Tyr Arg Lys Thr Lys Gln Ala Pro Leu Ala Lys Arg
 65 70 75 80
 Tyr Gly Ile Trp Gln Ser Glu Phe Ser Val Ile Trp Lys Val Lys Glu
 85 90 95
 Leu Val Pro Val Ser Pro Phe Ser
 100

<210> 706
 <211> 339

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<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (293)
<223> Xaa equals any of the naturally occurring L-amino acids
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Leu Ile Ser Ala Cys Phe Lys Leu Ile Gln Asp Leu Leu Ser Phe Ile
20 25 30

Asn Pro Gln Leu Xaa Ser Ile Leu Ile Arg Phe Ile Ser Asn Pro Met
35 40 45

Ala Pro Ser Trp Trp Gly Phe Leu Val Ala Gly Leu Met Phe Leu Cys
50 55 60

Ser Met Met Gln Ser Leu Ile Leu Gln His Tyr Tyr His Tyr Ile Phe
65 70 75 80

Val Thr Gly Val Lys Phe Arg Thr Gly Ile Met Gly Val Ile Tyr Arg
85 90 95

Lys Ala Leu Val Ile Thr Asn Ser Val Lys Arg Ala Ser Thr Val Gly
100 105 110

Glu Ile Val Asn Leu Met Ser Val Asp Ala Gln Arg Phe Met Asp Leu
115 120 125

Ala Pro Phe Leu Asn Leu Leu Trp Ser Ala Pro Leu Gln Ile Ile Leu
130 135 140

Ala Ile Tyr Phe Leu Trp Gln Asn Leu Gly Pro Ser Val Leu Ala Gly
 145 150 155 160
 Val Ala Phe Met Val Leu Leu Ile Pro Leu Asn Gly Xaa Val Ala Val
 165 170 175
 Lys Met Arg Ala Phe Gln Val Lys Gln Met Lys Leu Lys Asp Ser Arg
 180 185 190
 Ile Lys Leu Met Ser Glu Ile Leu Asn Gly Ile Lys Val Leu Lys Leu
 195 200 205
 Tyr Ala Trp Glu Pro Ser Phe Leu Lys Gln Val Glu Gly Ile Arg Gln
 210 215 220
 Gly Glu Leu Gln Leu Leu Arg Thr Ala Ala Tyr Leu His Thr Thr Thr
 225 230 235 240
 Thr Phe Thr Trp Met Cys Ser Pro Phe Leu Val Thr Leu Ile Thr Leu
 245 250 255
 Trp Val Tyr Val Tyr Val Asp Pro Asn Asn Val Leu Asp Ala Glu Lys
 260 265 270
 Ala Phe Val Ser Val Ser Leu Val Asn Ile Leu Arg Leu Pro Leu Asn
 275 280 285
 Met Leu Pro Gln Xaa Ile Ser Asn Leu Thr Gln Ala Ser Val Ser Leu
 290 295 300
 Lys Arg Ile Gln Gln Phe Leu Ser Gln Glu Glu Leu Asp Pro Gln Ser
 305 310 315 320
 Val Glu Arg Lys Thr Ser Ser Gln Ala Met His Thr Ile His Ser Gly
 325 330 335
 Thr Phe Thr

<210> 707

<211> 117

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

650

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 707

Xaa	Ala	Leu	Gly	Val	Glu	Glu	Xaa	Ala	Asp	Phe	Gln	Ser	Leu	Cys	Ser
1				5					10					15	

Trp	Tyr	His	Gly	Ala	Ile	Ser	Arg	Thr	Asp	Ala	Glu	Asn	Leu	Xaa	Arg
			20					25					30		

Leu	Cys	Lys	Glu	Ala	Ser	Tyr	Leu	Val	Arg	Asn	Ser	Glu	Thr	Ser	Lys
		35					40					45			

Asn	Asp	Phe	Ser	Leu	Ser	Leu	Lys	Ser	Ser	Gln	Gly	Phe	Met	His	Met
	50						55				60				

Lys	Leu	Ser	Arg	Thr	Lys	Glu	His	Lys	Tyr	Val	Leu	Gly	Gln	Asn	Ser
65					70					75				80	

Pro	Pro	Phe	Ser	Ser	Val	Pro	Glu	Ile	Val	His	His	Tyr	Ala	Ser	Arg
				85					90					95	

Lys	Leu	Pro	Ile	Lys	Gly	Ala	Glu	His	Met	Ser	Leu	Leu	Tyr	Pro	Val
		100						105					110		

Ala	Ile	Arg	Thr	Leu
				115

<210> 708

<211> 199

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 708

Trp	Leu	Ala	Ser	Gln	Pro	Cys	Met	Tyr	Ser	Leu	Ala	Glu	Trp	Glu	Ser
1				5					10					15	

651

Ala Pro Cys Ser Ala Arg Leu Leu Gly Ile Leu Val Gly Pro Thr Leu
 20 25 30
 Asn Lys Ser Gln Thr Leu Gly Thr Val Phe Ser Pro Trp Cys Ser Glu
 35 40 45
 His Leu Trp Glu Arg Leu Leu Ser Val Ser Val Gln Ser Lys Phe Val
 50 55 60
 Val Xaa Cys Ala Ile Tyr Thr Val Val Gly Trp Arg Lys Val Glu Ser
 65 70 75 80
 Tyr Thr Gly Lys Lys Leu Pro Ser Phe Asn Phe Ser Val Thr Leu Met
 85 90 95
 Arg Gly Pro Gln Lys Thr Ser Ser Phe Pro Asn Arg Ile Thr Leu Arg
 100 105 110
 Arg Thr Gly Leu Gly His Leu Ala Arg Met Ala Pro Ser Cys Cys Cys
 115 120 125
 Pro Leu Val Arg Asn Leu His Pro Thr Ser Ser Thr Pro Arg Phe Ser
 130 135 140
 Ser Pro Gln Pro Val Pro Phe Pro Gly Phe Leu Asn Cys Ser Ile Leu
 145 150 155 160
 Thr Gln Arg Cys Tyr Leu Pro Asn Thr Leu Pro Thr His Ser Cys Gln
 165 170 175
 Leu Cys Leu Leu Phe Asn Ser Pro His Phe Val Leu Pro Ser Gln Thr
 180 185 190
 Cys Phe Gln Ser Leu Leu Leu
 195

<210> 709

<211> 289

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 709

Arg	Gly	Ser	Arg	Cys	Pro	Gly	Glu	Leu	Thr	Ser	Arg	Gly	Glu	Ala	Ser
1				5					10					15	
Leu	Ser	Arg	Cys	Phe	Cys	Cys	Trp	Arg	Arg	Cys	Arg	Thr	Ala	Gly	Arg
			20					25					30		
Lys	Gln	Cys	Gly	Pro	Trp	Ser	Trp	Pro	Thr	Ala	Cys	Arg	Ser	Ala	Thr
	35						40					45			
Xaa	Pro	Leu	Phe	Val	Gln	His	Asp	Ala	Ala	Gln	Leu	Tyr	Leu	Lys	Leu
	50					55					60				
Trp	Asn	Leu	Ile	Lys	Asp	Gln	Ile	Thr	Asp	Val	His	Leu	Val	Glu	Arg
65					70				75					80	
Leu	Gln	Ala	Leu	Tyr	Xaa	Ile	Arg	Val	Lys	Asp	Ser	Leu	Ile	Cys	Val
				85					90					95	
Asp	Cys	Ala	Met	Glu	Ser	Ser	Arg	Asn	Ser	Ser	Met	Leu	Thr	Leu	Pro
			100					105					110		
Leu	Ser	Leu	Phe	Asp	Val	Asp	Ser	Lys	Pro	Leu	Lys	Thr	Leu	Glu	Asp
		115					120					125			
Ala	Leu	His	Cys	Phe	Phe	Gln	Pro	Arg	Glu	Leu	Ser	Ser	Lys	Ser	Lys
	130					135					140				
Cys	Phe	Cys	Glu	Asn	Cys	Gly	Lys	Lys	Thr	Arg	Gly	Lys	Gln	Val	Leu
145					150					155				160	
Lys	Leu	Thr	His	Leu	Pro	Gln	Thr	Leu	Thr	Ile	His	Leu	Met	Arg	Phe
				165				170						175	
Ser	Ile	Arg	Asn	Ser	Gln	Thr	Arg	Lys	Ile	Cys	His	Ser	Leu	Tyr	Phe
			180					185					190		
Pro	Gln	Ser	Leu	Asp	Phe	Ser	Gln	Ile	Leu	Pro	Met	Lys	Arg	Glu	Ser
		195					200					205			
Cys	Asp	Ala	Glu	Glu	Gln	Ser	Gly	Gly	Gln	Tyr	Glu	Leu	Phe	Ala	Val
	210					215					220				
Ile	Ala	His	Val	Gly	Met	Ala	Asp	Ser	Gly	His	Tyr	Cys	Val	Tyr	Ile
225					230					235				240	
Arg	Asn	Ala	Val	Asp	Gly	Lys	Trp	Phe	Cys	Phe	Asn	Asp	Ser	Asn	Ile
				245					250					255	

653

Cys Leu Val Ser Trp Glu Asp Ile Gln Cys Thr Tyr Gly Asn Pro Asn
 260 265 270

Tyr His Trp Gln Glu Thr Ala Tyr Leu Leu Val Tyr Met Lys Met Glu
 275 280 285

Cys

<210> 710
 <211> 244
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (189)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (229)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 710
 Pro Ile Pro Thr Lys Leu Pro Leu Thr Lys Ala Glu Glu Lys Ala Leu
 1 5 10 15

Lys Arg Val Arg Arg Lys Ile Lys Asn Lys Ile Ser Ala Gln Glu Ser
 20 25 30

Arg Arg Lys Lys Lys Glu Tyr Val Glu Cys Leu Glu Lys Lys Val Glu
 35 40 45

Thr Phe Thr Ser Glu Asn Asn Glu Leu Trp Lys Lys Val Glu Thr Leu
 50 55 60

Glu Asn Ala Asn Arg Thr Leu Leu Gln Gln Leu Gln Lys Leu Gln Thr
 65 70 75 80

Leu Val Thr Asn Lys Ile Ser Arg Pro Tyr Lys Met Ala Ala Thr Gln
 85 90 95

Thr Gly Thr Cys Leu Met Val Ala Ala Leu Cys Phe Val Leu Val Leu
 100 105 110

Gly Ser Leu Val Pro Cys Leu Pro Glu Phe Ser Ser Gly Ser Gln Thr
 115 120 125

654

Val Lys Glu Asp Pro Leu Ala Ala Asp Gly Val Tyr Thr Ala Ser Gln
 130 135 140
 Met Pro Ser Arg Ser Leu Leu Phe Tyr Asp Asp Gly Ala Gly Leu Trp
 145 150 155 160
 Glu Asp Gly Arg Ser Thr Leu Leu Pro Met Glu Pro Pro Asp Gly Trp
 165 170 175
 Glu Ile Asn Pro Gly Gly Pro Ala Glu Gln Arg Pro Xaa Asp His Leu
 180 185 190
 Gln His Asp His Leu Asp Ser Thr His Glu Thr Thr Lys Tyr Leu Ser
 195 200 205
 Glu Ala Trp Pro Lys Asp Gly Gly Asn Gly Thr Ser Pro Asp Phe Ser
 210 215 220
 His Ser Lys Glu Xaa Phe His Asp Arg Asp Leu Gly Pro Asn Thr Thr
 225 230 235 240
 Ile Lys Leu Ser

<210> 711
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 711
 Tyr Thr Cys Ile Thr Glu Ile Pro Ser Tyr Thr Asn Leu Phe Phe Leu
 1 5 10 15
 Leu Leu Asp Arg Asn Val Leu Leu Phe Gln Gln Phe Cys Glu Leu Lys
 20 25 30
 Ser Arg Val Thr Val Gly Leu Glu Trp Leu Val Tyr Leu Gly Met Tyr
 35 40 45
 Tyr Gln Asp Phe Thr Ala Met Leu Gly Asn Asp Arg Glu Asn Asp Arg
 50 55 60
 Asn Glu Ser His Gln Ile Phe Tyr Val Leu Ser Arg Ala Leu Ser Tyr
 65 70 75 80
 Gly Val Tyr Phe Pro Ile Lys
 85

655

<210> 712
 <211> 533
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (16)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (169)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (495)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 712
 Val Asp Pro Arg Val Arg Ser Val Phe Cys Lys Lys Phe Ala Glu Xaa
 1 5 10 15

 Leu Gly Ser Thr Glu Ala Lys Ala Val Pro Tyr Gln Lys Phe Glu Ala
 20 25 30

 His Pro Asn Asp Leu Tyr Val Glu Gly Leu Pro Glu Asn Ile Pro Phe
 35 40 45

 Arg Ser Pro Ser Trp Tyr Gly Ile Pro Arg Leu Glu Lys Ile Ile Gln
 50 55 60

 Val Gly Asn Arg Ile Lys Phe Val Ile Lys Arg Pro Glu Leu Leu Thr
 65 70 75 80

 His Ser Thr Thr Glu Val Thr Gln Pro Arg Thr Asn Thr Pro Val Lys
 85 90 95

 Glu Asp Trp Asn Val Arg Ile Thr Lys Leu Arg Lys Gln Val Glu Glu
 100 105 110

 Ile Phe Asn Leu Lys Phe Ala Gln Ala Leu Gly Leu Thr Glu Ala Val
 115 120 125

 Lys Val Pro Tyr Pro Val Phe Glu Ser Asn Pro Glu Phe Leu Tyr Val
 130 135 140

 Glu Gly Leu Pro Glu Gly Ile Pro Phe Arg Ser Pro Thr Trp Phe Gly
 145 150 155 160

Ile	Pro	Arg	Leu	Glu	Arg	Ile	Val	Xaa	Gly	Ser	Asn	Lys	Ile	Lys	Phe	165	170	175	
Val	Val	Lys	Lys	Pro	Glu	Leu	Val	Ile	Ser	Tyr	Leu	Pro	Pro	Gly	Met	180	185	190	
Ala	Ser	Lys	Ile	Asn	Thr	Lys	Ala	Leu	Gln	Ser	Pro	Lys	Arg	Pro	Arg	195	200	205	
Ser	Pro	Gly	Ser	Asn	Ser	Lys	Val	Pro	Glu	Ile	Glu	Val	Thr	Val	Glu	210	215	220	
Gly	Pro	Asn	Asn	Asn	Asn	Pro	Gln	Thr	Ser	Ala	Val	Arg	Thr	Pro	Thr	225	230	235	240
Gln	Thr	Asn	Gly	Ser	Asn	Val	Pro	Phe	Lys	Pro	Arg	Gly	Arg	Glu	Phe	245	250	255	
Ser	Phe	Glu	Ala	Trp	Asn	Ala	Lys	Ile	Thr	Asp	Leu	Lys	Gln	Lys	Val	260	265	270	
Glu	Asn	Leu	Phe	Asn	Glu	Lys	Cys	Gly	Glu	Ala	Leu	Gly	Leu	Lys	Gln	275	280	285	
Ala	Val	Lys	Val	Pro	Phe	Ala	Leu	Phe	Glu	Ser	Phe	Pro	Glu	Asp	Phe	290	295	300	
Tyr	Val	Glu	Gly	Leu	Pro	Glu	Gly	Val	Pro	Phe	Arg	Arg	Pro	Ser	Thr	305	310	315	320
Phe	Gly	Ile	Pro	Arg	Leu	Glu	Lys	Ile	Leu	Arg	Asn	Lys	Ala	Lys	Ile	325	330	335	
Lys	Phe	Ile	Ile	Lys	Lys	Pro	Glu	Met	Phe	Glu	Thr	Ala	Ile	Lys	Glu	340	345	350	
Ser	Thr	Ser	Ser	Lys	Ser	Pro	Pro	Arg	Lys	Ile	Asn	Ser	Ser	Pro	Asn	355	360	365	
Val	Asn	Thr	Thr	Ala	Ser	Gly	Val	Glu	Asp	Leu	Asn	Ile	Ile	Gln	Val	370	375	380	
Thr	Ile	Pro	Asp	Asp	Asp	Asn	Glu	Arg	Leu	Ser	Lys	Val	Glu	Lys	Ala	385	390	395	400
Arg	Gln	Leu	Arg	Glu	Gln	Val	Asn	Asp	Leu	Phe	Ser	Arg	Lys	Phe	Gly	405	410	415	
Glu	Ala	Ile	Gly	Met	Gly	Phe	Pro	Val	Lys	Val	Pro	Tyr	Arg	Lys	Ile	420	425	430	

657

Thr Ile Asn Pro Gly Cys Val Val Val Asp Gly Met Pro Pro Gly Val
 435 440 445

Ser Phe Lys Ala Pro Ser Tyr Leu Glu Ile Ser Ser Met Arg Arg Ile
 450 455 460

Leu Asp Ser Ala Glu Phe Ile Lys Phe Thr Val Ile Arg Pro Phe Pro
 465 470 475 480

Gly Leu Val Ile Asn Asn Gln Leu Val Asp Gln Ser Glu Ser Xaa Gly
 485 490 495

Pro Val Ile Gln Glu Ser Ala Glu Pro Ser Gln Leu Glu Val Pro Ala
 500 505 510

Thr Glu Glu Ile Lys Glu Thr Asp Gly Ser Ser Gln Ile Lys Gln Glu
 515 520 525

Pro Asp Pro Thr Trp
 530

<210> 713

<211> 252

<212> PRT

<213> Homo sapiens

<400> 713

Asn Ser Glu Tyr Cys Tyr Ser Gly Gly Ala Asp Ala Cys Ile His Ser
 1 5 10 15

Trp Lys Ile Pro Asp Leu Ser Met Asp Pro Tyr Asp Gly Tyr Asp Pro
 20 25 30

Ser Val Leu Ser His Val Leu Glu Gly His Gly Asp Ala Val Trp Gly
 35 40 45

Leu Ala Phe Ser Pro Thr Ser Gln Arg Leu Ala Ser Cys Ser Ala Asp
 50 55 60

Gly Thr Val Arg Ile Trp Asp Pro Ser Ser Ser Ser Pro Ala Cys Leu
 65 70 75 80

Cys Thr Phe Pro Thr Ala Ser Glu His Gly Val Pro Thr Ser Val Ala
 85 90 95

Phe Thr Ser Thr Glu Pro Ala His Ile Val Ala Ser Phe Arg Ser Gly
 100 105 110

658

Asp Thr Val Leu Tyr Asp Met Glu Val Gly Ser Ala Leu Leu Thr Leu
 115 120 125
 Glu Ser Arg Gly Ser Ser Gly Pro Thr Gln Ile Asn Gln Val Val Ser
 130 135 140
 His Pro Asn Gln Pro Leu Thr Ile Thr Ala His Asp Asp Arg Gly Ile
 145 150 155 160
 Arg Phe Leu Asp Asn Arg Thr Gly Lys Pro Val His Ser Met Val Ala
 165 170 175
 His Leu Asp Ala Val Thr Cys Leu Ala Val Asp Pro Asn Gly Ala Phe
 180 185 190
 Leu Met Ser Gly Ser His Asp Cys Ser Leu Arg Leu Trp Ser Leu Asp
 195 200 205
 Asn Lys Thr Cys Val Gln Glu Ile Thr Ala His Arg Lys Lys His Glu
 210 215 220
 Glu Ala Ile His Ala Val Ala Cys His Pro Ser Lys Ala Leu Ile Ala
 225 230 235 240
 Ser Ala Gly Ala Asp Ala Leu Ala Lys Val Phe Val
 245 250

<210> 714

<211> 201

<212> PRT

<213> Homo sapiens

<400> 714

Gly His Glu Arg Ser Cys Leu Leu Asn Gly Cys Gly Arg Leu Ala Ala
 1 5 10 15
 Leu Gly Arg Gly Leu Lys Ser Phe Leu Arg Gly Thr Ser Leu Cys Glu
 20 25 30
 Glu Ile Met Ser Leu Ala Leu Arg Ser Glu Leu Val Val Asp Lys Thr
 35 40 45
 Lys Arg Lys Lys Arg Arg Glu Leu Ser Glu Glu Gln Lys Gln Glu Ile
 50 55 60
 Lys Asp Ala Phe Glu Leu Phe Asp Thr Asp Lys Asp Glu Ala Ile Asp
 65 70 75 80
 Tyr His Glu Leu Lys Val Ala Met Arg Ala Leu Gly Phe Asp Val Lys

659

	85		90		95
Lys Ala Asp Val Leu Lys Ile Leu Lys Asp Tyr Asp Arg Glu Ala Thr					
	100		105		110
Gly Lys Ile Thr Phe Glu Asp Phe Asn Glu Val Val Thr Asp Trp Ile					
	115		120		125
Leu Glu Arg Asp Pro His Glu Glu Ile Leu Lys Ala Phe Lys Leu Phe					
	130		135		140
Asp Asp Asp Asp Ser Gly Lys Ile Ser Leu Arg Asn Leu Arg Arg Val					
	145		150		155
Ala Arg Glu Leu Gly Glu Asn Met Ser Asp Glu Glu Leu Arg Ala Met					
		165		170	175
Ile Glu Glu Phe Asp Lys Asp Gly Asp Gly Glu Ile Asn Gln Glu Glu					
	180		185		190
Phe Ile Ala Ile Met Thr Gly Asp Ile					
	195		200		

<210> 715

<211> 287

<212> PRT

<213> Homo sapiens

<400> 715

Ser His His Pro Pro Ala Ala Ala His His Ala Glu Ser Lys Asn Gly					
1		5		10	15
Trp Thr Leu Arg Gln Glu Ile Lys Ile Thr Ser Lys Phe Arg Gly Lys					
	20		25		30
Tyr Leu Ser Ile Met Pro Leu Gly Thr Ile His Cys Ile Phe His Ala					
	35		40		45
Thr Gly His His Tyr Thr Trp Lys Lys Val Thr Thr Thr Val His Asn					
	50		55		60
Ile Ile Val Gly Lys Leu Trp Ile Asp Gln Ser Gly Glu Ile Asp Ile					
	65		70		75
Val Asn His Lys Thr Gly Asp Lys Cys Asn Leu Lys Phe Val Pro Tyr					
	85		90		95
Ser Tyr Phe Ser Arg Asp Val Ala Arg Lys Val Thr Gly Glu Val Thr					
	100		105		110

Asp Pro Ser Gly Lys Val His Phe Ala Leu Leu Gly Thr Trp Asp Glu
115 120 125

Lys Met Glu Cys Phe Lys Val Gln Pro Val Ile Gly Glu Asn Gly Gly
130 135 140

Asp Ala Arg Gln Arg Gly His Glu Ala Glu Glu Ser Arg Val Met Leu
145 150 155 160

Trp Lys Arg Asn Pro Leu Pro Lys Asn Ala Glu Asn Met Tyr Tyr Phe
165 170 175

Ser Glu Leu Ala Leu Thr Leu Asn Ala Trp Glu Ser Gly Thr Ala Pro
180 185 190

Thr Asp Ser Arg Leu Arg Pro Asp Gln Arg Leu Met Glu Asn Gly Arg
195 200 205

Trp Asp Glu Ala Asn Ala Glu Lys Gln Arg Leu Glu Glu Lys Gln Arg
210 215 220

Leu Ser Arg Lys Lys Arg Glu Ala Glu Ala Met Lys Ala Thr Glu Asp
225 230 235 240

Gly Thr Pro Tyr Asp Pro Tyr Lys Ala Leu Trp Phe Glu Arg Lys Lys
245 250 255

Asp Pro Val Thr Lys Glu Leu Thr His Ile Tyr Arg Gly Glu Tyr Trp
260 265 270

Glu Cys Lys Glu Lys Gln Asp Trp Ser Ser Cys Pro Asp Ile Phe
275 280 285

<210> 716

<211> 203

<212> PRT

<213> Homo sapiens

<400> 716

Ser Ser Tyr Met Arg Gly Gly Tyr Phe Ser Ser Ser His Glu Gly Phe
1 5 10 15

Ser Tyr Glu Lys Asp Pro Arg Leu Tyr Phe Asp Asp Thr Cys Val Val
20 25 30

Pro Glu Arg Leu Glu Gly Lys Val Lys Gln Glu Pro Thr Met Tyr Arg
35 40 45

661

Glu Gly Pro Pro Tyr Gln Arg Arg Gly Ser Leu Gln Leu Trp Gln Phe
 50 55 60
 Leu Val Thr Leu Leu Asp Asp Pro Ala Asn Ala His Phe Ile Ala Trp
 65 70 75 80
 Thr Gly Arg Gly Met Glu Phe Lys Leu Ile Glu Pro Glu Glu Val Ala
 85 90 95
 Arg Arg Trp Gly Ile Gln Lys Asn Arg Pro Ala Met Asn Tyr Asp Lys
 100 105 110
 Leu Ser Arg Ser Leu Arg Tyr Tyr Tyr Glu Lys Gly Ile Met Gln Lys
 115 120 125
 Val Ala Gly Glu Arg Tyr Val Tyr Lys Phe Val Cys Asp Pro Asp Ala
 130 135 140
 Leu Phe Ser Met Ala Phe Pro Asp Asn Gln Arg Pro Phe Leu Lys Ala
 145 150 155 160
 Glu Ser Glu Cys His Leu Ser Glu Glu Asp Thr Leu Pro Leu Thr His
 165 170 175
 Phe Glu Asp Ser Pro Ala Tyr Leu Leu Asp Met Asp Arg Cys Ser Ser
 180 185 190
 Leu Pro Tyr Ala Glu Val Cys Leu Leu Ser Phe
 195 200

<210> 717

<211> 88

<212> PRT

<213> Homo sapiens

<400> 717

Ile Ile Gly Lys Glu Asp Asn Ser Glu Lys Pro Asn Ile Thr Lys Gly
 1 5 10 15
 Gly Leu Ala Leu Leu Glu Lys Tyr Thr Lys Leu Val Tyr Tyr Asn Thr
 20 25 30
 Trp Leu Tyr Val Gly Asn Val Thr Thr Gly Gln Ile His Leu Leu Cys
 35 40 45
 Ser Arg Gly Ser Pro Phe Leu Cys Arg Lys Tyr Asn Thr His Cys Met
 50 55 60
 Arg Ser Leu Arg Val Asp Ser Asn Pro Gly Leu Ser Thr Leu Asp Ile

65 70 75 80

Met His Val Gly Arg Trp Val Trp
85

<210> 718
<211> 359
<212> PRT
<213> Homo sapiens

<400> 718

Gly Leu Glu Tyr Pro Met Leu His Tyr Val Gly Phe Val Pro Val Ile
1 5 10 15

Asp Gly Asp Phe Ile Pro Ala Asp Pro Ile Asn Leu Tyr Ala Asn Ala
20 25 30

Ala Asp Ile Asp Tyr Ile Ala Gly Thr Asn Asn Met Asp Gly His Ile
35 40 45

Phe Ala Ser Ile Asp Met Pro Ala Ile Asn Lys Gly Asn Lys Lys Val
50 55 60

Thr Glu Glu Asp Phe Tyr Lys Leu Val Ser Glu Phe Thr Ile Thr Lys
65 70 75 80

Gly Leu Arg Gly Ala Lys Thr Thr Phe Asp Val Tyr Thr Glu Ser Trp
85 90 95

Ala Gln Asp Pro Ser Gln Glu Asn Lys Lys Lys Thr Val Val Asp Phe
100 105 110

Glu Thr Asp Val Leu Phe Leu Val Pro Thr Glu Ile Ala Leu Ala Gln
115 120 125

His Arg Ala Asn Ala Lys Ser Ala Lys Thr Tyr Ala Tyr Leu Phe Ser
130 135 140

His Pro Ser Arg Met Pro Val Tyr Pro Lys Trp Val Gly Ala Asp His
145 150 155 160

Ala Asp Asp Ile Gln Tyr Val Phe Gly Lys Pro Phe Ala Thr Pro Thr
165 170 175

Gly Tyr Arg Pro Gln Asp Arg Thr Val Ser Lys Ala Met Ile Ala Tyr
180 185 190

Trp Thr Asn Phe Ala Lys Thr Gly Asp Pro Asn Met Gly Asp Ser Ala
195 200 205

663

Val Pro Thr His Trp Glu Pro Tyr Thr Thr Glu Asn Ser Gly Tyr Leu
 210 215 220
 Glu Ile Thr Lys Lys Met Gly Ser Ser Ser Met Lys Arg Ser Leu Arg
 225 230 235 240
 Thr Asn Phe Leu Arg Tyr Trp Thr Leu Thr Tyr Leu Ala Leu Pro Thr
 245 250 255
 Val Thr Asp Gln Glu Ala Thr Pro Val Pro Pro Thr Gly Asp Ser Glu
 260 265 270
 Ala Thr Pro Val Pro Pro Thr Gly Asp Ser Glu Thr Ala Pro Val Pro
 275 280 285
 Pro Thr Gly Asp Ser Gly Ala Pro Pro Val Pro Pro Thr Gly Asp Ser
 290 295 300
 Gly Ala Pro Pro Val Thr Pro Thr Gly Asp Ser Glu Thr Ala Pro Val
 305 310 315 320
 Pro Pro Thr Gly Asp Ser Gly Ala Pro Pro Val Pro Pro Thr Gly Asp
 325 330 335
 Ser Glu Ala Ala Pro Val Pro Pro Thr Asp Asp Ser Lys Glu Ala Gln
 340 345 350
 Met Pro Ala Val Ile Arg Phe
 355

<210> 719
 <211> 134
 <212> PRT
 <213> Homo sapiens

<400> 719
 Ser Ser Pro Leu Arg Pro Leu Leu Leu Ala Leu Ala Leu Ala Ser Val
 1 5 10 15
 Pro Cys Ala Gln Gly Ala Cys Pro Ala Ser Ala Asp Leu Lys His Ser
 20 25 30
 Asp Gly Thr Arg Thr Cys Ala Lys Leu Tyr Asp Lys Ser Asp Pro Tyr
 35 40 45
 Tyr Glu Asn Cys Cys Gly Gly Ala Glu Leu Ser Leu Glu Ser Gly Ala
 50 55 60

664

Asp Leu Pro Tyr Leu Pro Ser Asn Trp Ala Asn Thr Ala Ser Ser Leu
 65 70 75 80

Val Val Ala Pro Arg Cys Glu Leu Thr Val Trp Ser Arg Gln Gly Lys
 85 90 95

Ala Gly Lys Thr His Lys Phe Ser Ala Gly Thr Tyr Pro Arg Leu Glu
 100 105 110

Glu Tyr Arg Arg Gly Ile Leu Gly Asp Trp Ser Asn Ala Ile Ser Ala
 115 120 125

Leu Tyr Cys Arg Cys Ser
 130

<210> 720
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 720
 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Gly Gly Arg Ser Arg Gly
 1 5 10 15

Ser Lys Leu Thr Tyr Ala Cys Met Arg Arg His Ser Ser Ser Ile Val
 20 25 30

Ser Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp
 35 40 45

<210> 721
 <211> 122
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (114)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 721
 Lys Leu Phe Leu Leu Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 1 5 10 15

Gly Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met Arg Arg
 20 25 30

665

His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala Val Val
 35 40 45
 Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg
 50 55 60
 Leu Ala Ala His Pro Pro Phe Ala Ser Trp Arg Asn Ser Glu Glu Ala
 65 70 75 80
 Arg Thr Asp Arg Pro Ser Gln Gln Leu Arg Ser Leu Asn Gly Glu Trp
 85 90 95
 Asp Ala Pro Cys Ser Gly Ala Leu Ser Ala Ala Gly Val Val Val Thr
 100 105 110
 Arg Xaa Val Thr Ala Thr Leu Ala Ser Ala
 115 120

<210> 722
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 722
 Ser Thr Ala Pro Thr Pro Val Met Asp Asn Ser Arg Asn Ala Pro Leu
 1 5 10 15
 Ala Gly Phe Gly Tyr Gly Leu Pro Ile Ser Arg Leu Tyr Ala Lys Tyr
 20 25 30
 Phe Gln Gly Asp Leu Asn Leu Tyr Ser Leu Ser Gly Tyr Gly Thr Asp
 35 40 45
 Ala Ile Ile Tyr Leu Lys Ala Leu Ser Ser Glu Ser Ile Glu Lys Leu
 50 55 60
 Pro Val Phe Asn Lys Ser Ala Phe Lys His Tyr Gln Met Ser Ser Glu
 65 70 75 80
 Ala Asp Asp Trp Cys Ile Pro Ser Arg Glu Pro Lys Asn Leu Ala Lys
 85 90 95
 Glu Val Ala Met
 100

<210> 723
 <211> 372

666

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (199)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 723

Arg	Gln	His	Lys	Ile	Ser	Glu	Thr	Leu	Glu	Ser	Arg	His	His	Lys	Ile
1					5				10					15	
Lys	Thr	Gly	Ser	Pro	Gly	Ser	Glu	Val	Val	Thr	Leu	Gln	Gln	Phe	Leu
			20					25					30		
Glu	Glu	Ser	Asn	Lys	Leu	Thr	Ser	Val	Gln	Ile	Lys	Ser	Ser	Ser	Gln
			35				40					45			
Glu	Asn	Leu	Leu	Asp	Glu	Val	Met	Lys	Ser	Leu	Ser	Val	Ser	Ser	Asp
	50						55				60				
Phe	Leu	Gly	Lys	Asp	Lys	Pro	Val	Ser	Cys	Gly	Leu	Ala	Arg	Ser	Val
65					70				75						80
Ser	Gly	Lys	Thr	Pro	Gly	Asp	Phe	Tyr	Asp	Arg	Arg	Thr	Thr	Lys	Pro
				85					90					95	
Glu	Phe	Leu	Arg	Pro	Gly	Pro	Arg	Lys	Thr	Glu	Asp	Thr	Tyr	Phe	Ile
			100					105					110		
Ser	Ser	Ala	Gly	Lys	Pro	Thr	Pro	Gly	Thr	Gln	Gly	Lys	Ile	Lys	Leu
		115					120					125			
Val	Lys	Glu	Ser	Ser	Leu	Ser	Arg	Gln	Ser	Lys	Asp	Ser	Asn	Pro	Tyr
	130					135					140				
Ala	Thr	Leu	Pro	Arg	Ala	Ser	Ser	Val	Ile	Ser	Thr	Ala	Glu	Gly	Thr
145					150					155					160
Thr	Arg	Arg	Thr	Ser	Ile	His	Asp	Phe	Leu	Thr	Lys	Asp	Ser	Arg	Leu
				165					170					175	
Pro	Ile	Ser	Val	Asp	Ser	Pro	Pro	Ala	Ala	Ala	Asp	Ser	Asn	Thr	Thr
			180					185					190		
Ala	Ala	Ser	Ser	Glu	Tyr	Xaa	Leu	His	Gln	Trp	Ser	Ser	His	Ile	Leu
	195						200					205			
Asp	Ile	Pro	Thr	His	Thr	Ile	Gly	Ser	Cys	Ala	Gln	Asn	Asp	Leu	Ala
	210					215					220				

Gln Ile Ser Asn Lys Leu Leu Lys Thr Gln Arg Phe Gly Leu Leu Phe
35 40 45

668

Leu Ser Leu Ala Val Arg His Gly Val Ser Gly Arg Arg Asn Arg Arg
50 55 60

Gly Asn Leu His Gly Asp Ser Tyr
65 70

<210> 725

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 725

Ala Ser Ile Asn Phe Tyr Phe Leu Trp Val Leu Leu Lys Asp Leu Asn
1 5 10 15

Met Glu Lys Ser Cys His Gly Ser Glu Leu His Asn Ala Leu Asn Arg
20 25 30

Arg Pro Ser Ile Phe Phe Thr Leu Ser Thr Leu Ala Ala Phe Cys Xaa
35 40 45

Phe Tyr Gln Asn Gly Leu Phe Leu Gly Lys Leu Phe Pro Pro Phe Trp.
50 55 60

Met Gly Arg Gly Phe Pro Gln Trp Phe
65 70

<210> 726

<211> 406

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (160)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 726

Arg Phe Val Phe Ser Ser Glu Leu His Gly Lys Ser Ala Tyr Ser Lys
1 5 10 15

669

Val Thr Cys Met Pro His Leu Met Glu Arg Met Val Gly Ser Gly Leu
 20 25 30

Leu Trp Leu Ala Leu Val Ser Cys Ile Leu Thr Gln Ala Ser Ala Val
 35 40 45

Gln Arg Asp Pro Ser Thr Val Glu Asp Lys Cys Glu Lys Ala Cys Arg
 50 55 60

Pro Glu Glu Glu Cys Leu Ala Leu Asn Ser Thr Trp Gly Cys Phe Cys
 65 70 75 80

Arg Gln Asp Leu Asn Ser Ser Asp Val His Ser Leu Gln Pro Gln Leu
 85 90 95

Asp Cys Gly Pro Arg Glu Ile Lys Val Lys Val Asp Lys Cys Leu Leu
 100 105 110

Gly Gly Leu Gly Leu Gly Glu Glu Val Ile Ala Tyr Leu Arg Asp Pro
 115 120 125

Asn Cys Ser Ser Ile Leu Gln Thr Glu Glu Arg Asn Trp Val Ser Val
 130 135 140

Thr Ser Pro Val Gln Ala Ser Ala Cys Arg Asn Ile Leu Glu Arg Xaa
 145 150 155 160

Gln Thr His Ala Ile Tyr Lys Asn Thr Leu Ser Leu Val Asn Asp Phe
 165 170 175

Ile Ile Arg Asp Thr Ile Leu Asn Ile Asn Phe Gln Cys Ala Tyr Pro
 180 185 190

Leu Asp Met Lys Val Ser Leu Gln Ala Ala Leu Gln Pro Ile Val Ser
 195 200 205

Ser Leu Asn Val Ser Val Asp Gly Asn Gly Glu Phe Ile Val Arg Met
 210 215 220

Ala Leu Phe Gln Asp Gln Asn Tyr Thr Asn Pro Tyr Glu Gly Asp Ala
 225 230 235 240

Val Glu Leu Ser Val Glu Ser Val Leu Tyr Val Gly Ala Ile Leu Glu
 245 250 255

Gln Gly Asp Thr Ser Arg Phe Asn Leu Val Leu Arg Asn Cys Tyr Ala
 260 265 270

Thr Pro Thr Glu Asp Lys Ala Asp Leu Val Lys Tyr Phe Ile Ile Arg
 275 280 285

670

Asn Ser Cys Ser Asn Gln Arg Asp Ser Thr Ile His Val Glu Glu Asn
 290 295 300
 Gly Gln Ser Ser Glu Ser Arg Phe Ser Val Gln Met Phe Met Phe Ala
 305 310 315 320
 Gly His Tyr Asp Leu Val Phe Leu His Cys Glu Ile His Leu Cys Asp
 325 330 335
 Ser Leu Asn Glu Gln Cys Gln Pro Ser Cys Ser Arg Ser Gln Val Arg
 340 345 350
 Ser Glu Val Pro Ala Ile Asp Leu Ala Arg Val Leu Asp Leu Gly Pro
 355 360 365
 Ile Thr Arg Arg Gly Ala Gln Ser Pro Gly Val Met Asn Gly Thr Pro
 370 375 380
 Ser Thr Ala Gly Phe Leu Val Ala Trp Pro Met Val Leu Leu Thr Val
 385 390 395 400
 Leu Leu Ala Trp Leu Phe
 405

<210> 727

<211> 159

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 727

Gln His Ile Pro Tyr Arg Glu Asp Lys Asn Leu Thr Gly Thr Ala Arg
 1 5 10 15
 Tyr Ala Ser Ile Asn Ala His Leu Gly Ile Glu Gln Ser Arg Arg Asp
 20 25 30
 Asp Met Glu Ser Leu Gly Tyr Val Leu Met Tyr Phe Asn Arg Thr Ser
 35 40 45
 Leu Pro Trp Gln Gly Leu Lys Ala Ala Thr Lys Lys Gln Lys Tyr Glu
 50 55 60
 Lys Ile Ser Glu Lys Lys Met Ser Thr Pro Val Glu Val Leu Cys Lys
 65 70 75 80

671

Gly	Phe	Pro	Ala	Glu	Phe	Ala	Met	Tyr	Leu	Asn	Tyr	Cys	Arg	Gly	Leu
				85					90					95	
Arg	Phe	Glu	Glu	Ala	Pro	Asp	Tyr	Met	Tyr	Leu	Arg	Gln	Leu	Phe	Arg
			100					105					110		
Ile	Leu	Phe	Arg	Thr	Leu	Asn	His	Gln	Tyr	Asp	Tyr	Thr	Phe	Asp	Trp
		115					120					125			
Thr	Met	Leu	Lys	Gln	Lys	Ala	Ala	Gln	Gln	Ala	Ala	Ser	Ser	Ser	Xaa
	130					135					140				
Ala	Gly	Ser	Ala	Gly	Pro	Asn	Pro	His	Arg	Phe	Leu	Ser	Met	Asn	
145					150					155					

<210> 728

<211> 226

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 728

Glu	Pro	Leu	Xaa	Pro	Ala	Gly	Thr	Gln	Arg	Val	Cys	Leu	Val	Xaa	Pro
1				5				10						15	
Asp	Val	Lys	Trp	Gly	Pro	Gly	Lys	Ser	Gln	Met	Thr	Arg	Ala	Glu	Trp
			20					25					30		
Gln	Val	Ala	Glu	Ala	Lys	Thr	Leu	Val	His	Thr	Leu	Asp	Gly	Trp	Ser
		35					40					45			
Val	Val	Gln	Thr	Met	Val	Val	Ser	Thr	Lys	Thr	Pro	Asp	Arg	Lys	Leu
	50					55					60				

672

Ile Phe Gly Lys Gly Asn Phe Glu His Leu Thr Glu Lys Ile Arg Gly
 65 70 75 80
 Ser Pro Asp Val Thr Cys Val Phe Leu Asn Val Glu Arg Met Ala Ala
 85 90 95
 Pro Thr Lys Lys Glu Leu Glu Ala Ala Trp Gly Xaa Glu Val Phe Asp
 100 105 110
 Arg Phe Thr Val Val Leu His Ile Phe Arg Cys Asn Ala Arg Thr Lys
 115 120 125
 Glu Ala Arg Leu Gln Val Ala Leu Ala Glu Met Pro Leu His Arg Ser
 130 135 140
 Asn Leu Lys Arg Asp Val Ala His Leu Tyr Arg Gly Val Gly Ser Arg
 145 150 155 160
 Tyr Ile Met Gly Ser Gly Glu Ser Phe Met Gln Leu Gln Gln Arg Leu
 165 170 175
 Leu Arg Glu Lys Glu Ala Lys Ile Arg Lys Ala Leu Asp Arg Leu Arg
 180 185 190
 Lys Lys Arg His Leu Leu Arg Arg Gln Arg Arg Arg Arg Glu Phe Pro
 195 200 205
 Val Ile Ser Val Val Gly Tyr Thr Asn Leu Arg Lys Asp His Val Ile
 210 215 220
 Lys Asp
 225

<210> 729

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 729

673

Leu Cys Leu Gln Gly Tyr Tyr Arg Gly Ala Val Gly Ala Leu Leu Val
 1 5 10 15
 Phe Asp Leu Thr Lys His Gln Thr Tyr Ala Val Val Glu Arg Trp Leu
 20 25 30
 Lys Glu Leu Tyr Asp His Xaa Glu Ala Thr Ile Val Val Met Leu Val
 35 40 45
 Gly Asn Lys Met Thr Xaa Ala Arg Pro Gly Lys Cys Pro
 50 55 60

<210> 730

<211> 272

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (263)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 730

Pro Phe His Gln Gly Phe Arg Leu Leu Pro Ala Ala Trp Thr Pro Ala
 1 5 10 15
 Thr Gly Ser Pro Ser Gln Ser Ser Ile Lys Ala Trp Arg Thr Pro Cys
 20 25 30
 Leu Ser Val Pro Gly Lys Lys Lys Asn Gln Trp Phe Glu Arg Gln Val
 35 40 45
 Arg Trp Ser Thr Ala Thr Ser Val Thr Cys Cys Ser Ser Cys Thr Val
 50 55 60
 Ser Met Pro Pro Ser Pro Arg Ser Val Gly Trp Ser Gly Lys Arg Arg
 65 70 75 80
 Leu Arg Ile Leu Pro Ala Ser Pro Ser Ser Gly Ser Ala Ser Gly Trp
 85 90 95
 Thr Ile Arg Thr Ser Thr Ala Leu Gly Ile Ser Ser Val Ile Thr Ala
 100 105 110
 Trp Gly Val Leu Phe Asn Asp Ser Thr Arg Leu Ile Leu Tyr Asn Asp
 115 120 125
 Gly Asp Ser Leu Gln Tyr Ile Glu Arg Asp Gly Thr Glu Ser Tyr Leu
 130 135 140

674

Thr Val Ser Ser His Pro Asn Ser Leu Met Lys Lys Ile Thr Leu Leu
145 150 155 160

Lys Tyr Phe Arg Asn Tyr Met Ser Glu His Leu Leu Lys Ala Gly Ala
165 170 175

Asn Ile Thr Pro Arg Glu Gly Asp Glu Leu Ala Arg Leu Pro Tyr Leu
180 185 190

Arg Thr Trp Phe Arg Thr Arg Ser Ala Ile Ile Leu His Leu Ser Asn
195 200 205

Gly Ser Val Gln Ile Asn Phe Phe Gln Asp His Thr Lys Leu Ile Leu
210 215 220

Cys Pro Leu Met Ala Ala Val Thr Tyr Ile Asp Glu Lys Arg Asp Phe
225 230 235 240

Arg Thr Tyr Arg Leu Ser Leu Leu Glu Glu Tyr Gly Cys Cys Lys Glu
245 250 255

Leu Ala Ser Arg Leu Arg Xaa Arg Pro His Tyr Gly Gly Gln Ala Ala
260 265 270

<210> 731

<211> 175

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (137)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (167)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (168)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

675

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 731

Leu Ser Cys Cys Arg Arg Arg Leu Cys Arg Arg Arg Glu Cys Gly Val
 1 5 10 15

Gly Thr Gly Ala Ala Ala Ala Ala Thr Pro Gly Ile Phe Val Ala Ser
 20 25 30

Ser Arg Pro Phe Cys Pro Ala Ala Phe Pro Gln Ser Ala Leu Pro Thr
 35 40 45

Pro Leu Arg Pro Gly Ala Pro Ala Ser Ile Ser Arg Ser Leu Ser Thr
 50 55 60

Thr His Thr Ala Pro Pro Ile Met Asp Pro Gly Ser Gly Gly Gly Gly
 65 70 75 80

Gly Gly Gly Gly Gly Gly Gly Ser Ser Ser Gly Ser Ser Ser Ser Asp
 85 90 95

Ser Ala Pro Asp Cys Trp Asp Gln Ala Asp Met Glu Ala Pro Gly Pro
 100 105 110

Gly Pro Cys Gly Gly Gly Gly Ser Leu Ala Ala Ala Ala Glu Ala Gln
 115 120 125

Arg Glu Asn Leu Ser Ala Ala Phe Xaa Arg Gln Leu Asn Val Asn Ala
 130 135 140

Lys Pro Phe Val Pro Asn Val His Ala Ala Glu Phe Val Pro Ser Phe
 145 150 155 160

Leu Arg Gly Pro Ala Ala Xaa Xaa Xaa Pro Ala Gly Gly Gly Arg
 165 170 175

<210> 732

<211> 133

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

676

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 732

Thr	Leu	Gly	Pro	Asp	Cys	Ser	Glu	Leu	Ala	Ala	Val	Leu	Leu	Arg	Met
1				5					10					15	

Asp	Gly	Arg	Leu	Asp	Gly	Trp	Val	Asp	Gly	Arg	Gly	Trp	Pro	Trp	Met
			20					25						30	

Arg	Ser	Ala	Leu	His	Thr	Gln	Thr	Arg	Trp	Glu	Arg	Phe	Val	Glu	His
		35					40					45			

Asp	Ser	Leu	Gln	Gln	Glu	Tyr	Met	Cys	Ala	Tyr	Leu	Cys	Gly	Gln	Lys
	50					55					60				

Tyr	Leu	His	Leu	Gly	Phe	Gly	Ala	Ile	Gln	Glu	Glu	Met	Ser	Gln	Lys
65					70					75					80

Xaa	Leu	Asn	Gln	Gly	Leu	Ser	Thr	Leu	Trp	Ile	Leu	Asn	Leu	Lys	Met
			85						90					95	

Gly	Ala	Gly	Leu	Cys	Leu	Lys	Ala	Leu	Leu	Ser	His	Leu	Leu	Gly	Pro
			100					105						110	

Trp	Phe	Asn	Lys	Ala	Leu	Ser	Lys	Leu	Xaa	Lys	Lys	Lys	Lys	Lys	Lys
		115					120					125			

Xaa	Xaa	Lys	Lys	Arg
		130		

<210> 733

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

677

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 733

His Tyr Asn Lys Arg Ser Thr Ile Thr Ser Arg Glu Ile Gln Thr Ala
 1 5 10 15

Val Arg Leu Leu Leu Pro Gly Glu Leu Ala Lys His Ala Val Ser Glu
 20 25 30

Gly Thr Lys Ala Val Thr Gln Val His Pro Ala Pro Lys Xaa Glu Leu
 35 40 45

Pro Gly Pro Gly Ala Arg Ser Leu Glu Ser Pro Ala Ala
 50 55 60

<210> 734

<211> 106

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 734

Gly Ser Asp Gly Pro Arg Glu Arg Ala Pro Val Ala Trp Leu Ser His
 1 5 10 15

Ser Ile Leu Ser Leu Ile Leu Asn Lys Tyr Phe Leu Trp Gly Phe Phe
 20 25 30

Phe Phe Leu Xaa Ala Val Val Cys Phe Lys Leu Thr Thr Trp Lys Lys
 35 40 45

His Leu Gly Tyr Leu Trp Phe Ser Cys Leu Val Pro Ala Ser Thr Pro
 50 55 60

Thr Pro Phe Glu Ser Gly Asp Ser Phe Phe Cys Val Glu Thr Arg Trp
 65 70 75 80

Pro Arg Gln Glu Val Lys Ala Ala Ile Arg Lys Ala Leu Gly Thr Leu
 85 90 95

Val Pro Val Ala Arg Leu Gln Val Thr Ser
 100 105

<210> 735

<211> 349

<212> PRT

<213> Homo sapiens

<400> 735

Ala Arg Gly Pro Gly Gly Ala Asp Ser Ser Lys Pro Arg Ile Leu Leu
 1 5 10 15

Met Gly Leu Arg Arg Ser Gly Lys Ser Ser Ile Gln Lys Val Val Phe
 20 25 30

His Lys Met Ser Pro Asn Glu Thr Leu Phe Leu Glu Ser Thr Asn Lys
 35 40 45

Ile Tyr Lys Asp Asp Ile Ser Asn Ser Ser Phe Val Asn Phe Gln Ile
 50 55 60

Trp Asp Phe Pro Gly Gln Met Asp Phe Phe Asp Pro Thr Phe Asp Tyr
 65 70 75 80

Glu Met Ile Phe Arg Gly Thr Gly Ala Leu Ile Tyr Val Ile Asp Ala
 85 90 95

Gln Asp Asp Tyr Met Glu Ala Leu Thr Arg Leu His Ile Thr Val Ser
 100 105 110

Lys Ala Tyr Lys Val Asn Pro Asp Met Asn Phe Glu Val Phe Ile His
 115 120 125

Lys Val Asp Gly Leu Ser Asp Asp His Lys Ile Glu Thr Gln Arg Asp
 130 135 140

Ile His Gln Arg Ala Asn Asp Asp Leu Ala Asp Ala Gly Leu Glu Lys
 145 150 155 160

Leu His Leu Ser Phe Tyr Leu Thr Ser Ile Tyr Asp His Ser Ile Phe
 165 170 175

Glu Ala Phe Ser Lys Val Val Gln Lys Leu Ile Pro Gln Leu Pro Thr
 180 185 190

Leu Glu Asn Leu Leu Asn Ile Phe Ile Ser Asn Ser Gly Ile Glu Lys
 195 200 205

Ala Phe Leu Phe Asp Val Val Ser Lys Ile Tyr Ile Ala Thr Asp Ser
 210 215 220

Ser Pro Val Asp Met Gln Ser Tyr Glu Leu Cys Cys Asp Met Ile Asp
 225 230 235 240

679

Val	Val	Ile	Asp	Val	Ser	Cys	Ile	Tyr	Gly	Leu	Lys	Glu	Asp	Gly	Ser
				245					250					255	

Gly Ser Ala Tyr Asp Lys Glu Ser Met Ala Ile Ile Lys Leu Asn Asn
260 265 270

Thr Thr Val Leu Tyr Leu Lys Glu Val Thr Lys Phe Leu Ala Leu Val
275 280 285

Cys Ile Leu Arg Glu Glu Ser Phe Glu Arg Lys Gly Leu Ile Asp Tyr
290 295 300

Asn Phe His Cys Phe Arg Lys Ala Ile His Glu Val Phe Glu Val Gly
305 310 315 320

Val Thr Ser His Arg Ser Cys Gly His Gln Thr Ser Ala Ser Ser Leu
325 330 335

Lys Ala Leu Thr His Asn Gly Thr Pro Arg Asn Ala Ile
340 345

<210> 736

<211> 468

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (250)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (301)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (306)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 736

Ala Ala Cys Cys Phe Ser Cys Trp Ala Ser Ser Gly Phe Ala Phe Val
1 5 10 15

Ala Ser Glu Pro Leu Ala Phe Lys Pro Leu Ser Leu Leu Leu Pro His
20 25 30

680

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Thr Pro Leu Ser Leu Thr Pro Leu Phe Cys Cys Pro Val Thr Cys Pro
      35              40              45

Lys Leu Cys Pro Glu Leu Arg Thr Phe Pro Phe Leu Ser Leu Glu Pro
      50              55              60

Phe Phe Asp Ser Thr Lys Pro Ser Trp Tyr Pro Gly Met Thr Arg Leu
      65              70              75              80

Leu Asp Ala Glu Trp Trp Arg Arg Ser Glu Ala Gly His Leu Arg Arg
              85              90              95

Gln Val Ala Ala Val Leu Phe Phe Pro Glu Gly Thr Cys Ser Asn Lys
              100              105              110

Lys Ala Leu Leu Lys Phe Lys Pro Gly Ala Phe Ile Ala Gly Val Pro
      115              120              125

Val Gln Pro Val Leu Ile Arg Tyr Pro Asn Ser Leu Asp Thr Thr Ser
      130              135              140

Trp Ala Trp Arg Gly Pro Gly Val Leu Lys Val Leu Trp Leu Thr Ala
      145              150              155              160

Ser Gln Pro Cys Ser Ile Val Asp Val Glu Phe Leu Pro Val Tyr His
              165              170              175

Pro Ser Pro Glu Glu Ser Arg Asp Pro Thr Leu Tyr Ala Asn Asn Val
              180              185              190

Gln Arg Val Met Ala Gln Ala Leu Gly Ile Pro Ala Thr Glu Cys Glu
      195              200              205

Phe Val Gly Ser Leu Pro Val Ile Val Val Gly Arg Leu Lys Val Ala
      210              215              220

Leu Glu Pro Gln Leu Trp Glu Leu Gly Lys Val Leu Arg Lys Ala Gly
      225              230              235              240

Leu Ser Ala Gly Tyr Val Asp Ala Gly Xaa Glu Pro Gly Arg Ser Arg
              245              250              255

Met Ile Ser Gln Glu Glu Phe Ala Arg Gln Leu Gln Leu Ser Asp Pro
              260              265              270

Gln Thr Val Ala Gly Ala Phe Gly Tyr Phe Gln Gln Asp Thr Lys Gly
      275              280              285

Leu Val Asp Phe Arg Asp Val Ala Leu Ala Leu Ala Xaa Leu Asp Gly
      290              295              300

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681

Gly Xaa Ser Leu Glu Glu Leu Thr Arg Leu Ala Phe Glu Leu Phe Ala
 305 310 315 320
 Glu Glu Gln Ala Glu Gly Pro Asn Arg Leu Leu Tyr Lys Asp Gly Phe
 325 330 335
 Ser Thr Ile Leu His Leu Leu Leu Gly Ser Pro His Pro Ala Ala Thr
 340 345 350
 Ala Leu His Ala Glu Leu Cys Gln Ala Gly Ser Ser Gln Gly Leu Ser
 355 360 365
 Leu Cys Gln Phe Gln Asn Phe Ser Leu His Asp Pro Leu Tyr Gly Lys
 370 375 380
 Leu Phe Ser Thr Tyr Leu Arg Pro Pro His Thr Ser Arg Gly Thr Ser
 385 390 395 400
 Gln Thr Pro Asn Ala Ser Ser Pro Gly Asn Pro Thr Ala Leu Ala Asn
 405 410 415
 Gly Thr Gly Lys His Pro Ser Arg Arg Glu Thr Glu Cys Leu Ser Leu
 420 425 430
 Ser Pro Pro Pro Pro Gln Gly Ser Ala Arg Gly Leu Pro Tyr Ala Ser
 435 440 445
 Ala Pro Ser Leu Leu Leu Phe Glu Phe Cys Tyr Cys Cys Leu Val Val
 450 455 460
 Val Phe Leu Ser
 465

<210> 737

<211> 184

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 737

Arg Glu Ser Pro Phe Pro Leu Pro Ser Gly Arg Glu Glu Arg Arg Gly
 1 5 10 15

Gln Gly Lys Lys Leu Leu Val Xaa Leu Thr Met Lys Thr Leu Leu Leu
 20 25 30

682

Leu Leu Leu Val Leu Leu Glu Leu Gly Glu Ala Gln Gly Ser Leu His
 35 40 45
 Arg Val Pro Leu Arg Arg His Pro Ser Leu Lys Lys Lys Leu Arg Ala
 50 55 60
 Arg Ser Gln Leu Ser Glu Phe Trp Lys Ser His Asn Leu Asp Met Ile
 65 70 75 80
 Gln Phe Thr Glu Ser Cys Ser Met Asp Gln Ser Ala Lys Glu Pro Leu
 85 90 95
 Ile Asn Tyr Leu Asp Met Glu Tyr Phe Gly Thr Ile Ser Ile Gly Ser
 100 105 110
 Pro Pro Gln Asn Phe Thr Val Ile Phe Asp Thr Gly Ser Ser Asn Leu
 115 120 125
 Trp Val Pro Ser Val Tyr Cys Thr Ser Pro Ala Cys Lys Thr His Ser
 130 135 140
 Arg Phe Gln Pro Ser Gln Ser Ser Thr Tyr Ser Gln Pro Gly Gln Ser
 145 150 155 160
 Phe Ser Ile Gln Tyr Gly Thr Gly Ser Leu Ser Gly Ile Ile Gly Ser
 165 170 175
 Arg Pro Ser Leu Cys Gly Lys Asp
 180

<210> 738

<211> 624

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (188)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (192)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 738

His	Xaa	His	Ser	Phe	Ser	Ser	Gly	Tyr	Val	Glu	Met	Glu	Phe	Glu	Phe	1	5	10	15
Asp	Arg	Leu	Arg	Ala	Phe	Gln	Ala	Met	Gln	Val	His	Cys	Asn	Asn	Met	20	25	30	
His	Thr	Leu	Gly	Ala	Arg	Leu	Pro	Gly	Gly	Val	Glu	Cys	Arg	Phe	Arg	35	40	45	
Arg	Gly	Pro	Ala	Met	Ala	Trp	Glu	Gly	Glu	Pro	Met	Arg	His	Asn	Leu	50	55	60	
Gly	Gly	Asn	Leu	Gly	Asp	Pro	Arg	Ala	Arg	Ala	Val	Ser	Val	Pro	Leu	65	70	75	80
Gly	Gly	Arg	Val	Ala	Arg	Phe	Leu	Gln	Cys	Arg	Phe	Leu	Phe	Ala	Gly	85	90	95	
Pro	Trp	Leu	Leu	Phe	Ser	Glu	Ile	Ser	Phe	Ile	Ser	Asp	Val	Val	Asn	100	105	110	
Asn	Ser	Ser	Pro	Ala	Leu	Gly	Gly	Thr	Phe	Pro	Pro	Ala	Pro	Trp	Trp	115	120	125	
Pro	Pro	Gly	Pro	Pro	Pro	Thr	Asn	Phe	Ser	Ser	Leu	Glu	Leu	Glu	Pro	130	135	140	
Arg	Gly	Gln	Gln	Pro	Val	Ala	Lys	Ala	Glu	Gly	Ser	Pro	Thr	Ala	Ile	145	150	155	160
Leu	Ile	Gly	Cys	Leu	Val	Ala	Ile	Ile	Leu	Leu	Leu	Leu	Leu	Ile	Ile	165	170	175	
Ala	Leu	Met	Leu	Trp	Arg	Leu	His	Trp	Arg	Arg	Xaa	Leu	Ser	Lys	Xaa	180	185	190	
Glu	Arg	Arg	Val	Leu	Glu	Glu	Glu	Leu	Thr	Val	His	Leu	Ser	Val	Pro	195	200	205	
Gly	Asp	Thr	Ile	Leu	Ile	Asn	Asn	Arg	Pro	Gly	Pro	Arg	Glu	Pro	Pro	210	215	220	
Pro	Tyr	Gln	Glu	Pro	Arg	Pro	Arg	Gly	Asn	Pro	Pro	His	Ser	Ala	Pro	225	230	235	240
Cys	Val	Pro	Asn	Gly	Ser	Ala	Leu	Leu	Leu	Ser	Asn	Pro	Ala	Tyr	Arg	245	250	255	

Leu Leu Leu Ala Thr Tyr Ala Arg Pro Pro Arg Gly Pro Gly Pro Pro
 260 265 270

Thr Pro Ala Trp Ala Lys Pro Thr Asn Thr Gln Ala Tyr Ser Gly Asp
 275 280 285

Tyr Met Glu Pro Glu Lys Pro Gly Ala Pro Leu Leu Pro Pro Pro Pro
 290 295 300

Gln Asn Ser Val Pro His Tyr Ala Glu Ala Asp Ile Val Thr Leu Gln
 305 310 315 320

Gly Val Thr Gly Gly Asn Thr Tyr Ala Val Pro Ala Leu Pro Pro Gly
 325 330 335

Ala Val Gly Asp Gly Pro Pro Arg Val Asp Phe Pro Arg Ser Arg Leu
 340 345 350

Arg Phe Lys Glu Lys Leu Gly Glu Gly Gln Phe Gly Glu Val His Leu
 355 360 365

Cys Glu Val Asp Ser Pro Gln Asp Leu Val Ser Leu Asp Phe Pro Leu
 370 375 380

Asn Val Arg Lys Gly His Pro Leu Leu Val Ala Val Lys Ile Leu Arg
 385 390 395 400

Pro Asp Ala Thr Lys Asn Ala Arg Asn Asp Phe Leu Lys Glu Val Lys
 405 410 415

Ile Met Ser Arg Leu Lys Asp Pro Asn Ile Ile Arg Leu Leu Gly Val
 420 425 430

Cys Val Gln Asp Asp Pro Leu Cys Met Ile Thr Asp Tyr Met Glu Asn
 435 440 445

Gly Asp Leu Asn Gln Phe Leu Ser Ala His Gln Leu Glu Asp Lys Ala
 450 455 460

Ala Glu Gly Ala Pro Gly Asp Gly Gln Ala Ala Gln Gly Pro Thr Ile
 465 470 475 480

Ser Tyr Pro Met Leu Leu His Val Ala Ala Gln Ile Ala Ser Gly Met
 485 490 495

Arg Tyr Leu Ala Thr Leu Asn Phe Val His Arg Asp Leu Ala Thr Arg
 500 505 510

Asn Cys Leu Val Gly Glu Asn Phe Thr Ile Lys Ile Ala Asp Phe Gly
 515 520 525

685

Met Ser Arg Asn Leu Tyr Ala Gly Asp Tyr Tyr Arg Val Gln Gly Arg
 530 535 540

Ala Val Leu Pro Ile Arg Trp Met Ala Trp Glu Cys Ile Leu Met Gly
 545 550 555 560

Lys Phe Thr Thr Ala Ser Asp Val Trp Ala Phe Gly Val Thr Leu Trp
 565 570 575

Glu Val Leu Met Leu Cys Arg Ala Gln Pro Phe Gly Gln Leu Thr Asp
 580 585 590

Glu Gln Val Ile Glu Asn Ala Gly Glu Phe Phe Arg Asp Gln Gly Arg
 595 600 605

Gln Val Tyr Leu Ser Arg Pro Pro Ala Cys Pro Gln Ala Tyr Met Ser
 610 615 620

<210> 739

<211> 477

<212> PRT

<213> Homo sapiens

<400> 739

Phe Gly Thr Ser Trp Cys Ser Met Met Leu Pro Pro Trp Thr Leu Gly
 1 5 10 15

Leu Leu Leu Leu Ala Thr Val Arg Gly Lys Glu Val Cys Tyr Gly Gln
 20 25 30

Leu Gly Cys Phe Ser Asp Glu Lys Pro Trp Ala Gly Thr Leu Gln Arg
 35 40 45

Pro Val Lys Leu Leu Pro Trp Ser Pro Glu Asp Ile Asp Thr Arg Phe
 50 55 60

Leu Leu Tyr Thr Asn Glu Asn Pro Asn Asn Phe Gln Leu Ile Thr Gly
 65 70 75 80

Thr Glu Pro Asp Thr Ile Glu Ala Ser Asn Phe Gln Leu Asp Arg Lys
 85 90 95

Thr Arg Phe Ile Ile His Gly Phe Leu Asp Lys Ala Glu Asp Ser Trp
 100 105 110

Pro Ser Asp Met Cys Lys Lys Met Phe Glu Val Glu Lys Val Asn Cys

686

115	120	125
Ile Cys Val Asp Trp Arg His Gly Ser Arg Ala Met Tyr Thr Gln Ala 130 135 140		
Val Gln Asn Ile Arg Val Val Gly Ala Glu Thr Ala Phe Leu Ile Gln 145 150 155 160		
Ala Leu Ser Thr Gln Leu Gly Tyr Ser Leu Glu Asp Val His Val Ile 165 170 175		
Gly His Ser Leu Gly Ala His Thr Ala Ala Glu Ala Gly Arg Arg Leu 180 185 190		
Gly Gly Arg Val Gly Arg Ile Thr Gly Leu Asp Pro Ala Gly Pro Cys 195 200 205		
Phe Gln Asp Glu Pro Glu Glu Val Arg Leu Asp Pro Ser Asp Ala Val 210 215 220		
Phe Val Asp Val Ile His Thr Asp Ser Ser Pro Ile Val Pro Ser Leu 225 230 235 240		
Gly Phe Gly Met Ser Gln Lys Val Gly His Leu Asp Phe Phe Pro Asn 245 250 255		
Gly Gly Lys Glu Met Pro Gly Cys Lys Lys Asn Val Leu Ser Thr Ile 260 265 270		
Thr Asp Ile Asp Gly Ile Trp Glu Gly Ile Gly Gly Phe Val Ser Cys 275 280 285		
Asn His Leu Arg Ser Phe Glu Tyr Tyr Ser Ser Ser Val Leu Asn Pro 290 295 300		
Asp Gly Phe Leu Gly Tyr Pro Cys Ala Ser Tyr Asp Glu Phe Gln Glu 305 310 315 320		
Ser Lys Cys Phe Pro Cys Pro Ala Glu Gly Cys Pro Lys Met Gly His 325 330 335		
Tyr Ala Asp Gln Phe Lys Gly Lys Thr Ser Ala Val Glu Gln Thr Phe 340 345 350		
Phe Leu Asn Thr Gly Glu Ser Gly Asn Phe Thr Ser Trp Arg Tyr Lys 355 360 365		
Val Ser Val Thr Leu Ser Gly Lys Glu Lys Val Asn Gly Tyr Ile Arg 370 375 380		
Ile Ala Leu Tyr Gly Ser Asn Glu Asn Ser Lys Gln Tyr Glu Ile Phe		

687

385 390 395 400
 Lys Gly Ser Leu Lys Pro Asp Ala Ser His Thr Cys Ala Ile Asp Val
 405 410 415
 Asp Phe Asn Val Gly Lys Ile Gln Lys Val Lys Phe Leu Trp Asn Lys
 420 425 430
 Arg Gly Ile Asn Leu Ser Glu Pro Lys Leu Gly Ala Ser Gln Ile Thr
 435 440 445
 Val Gln Ser Gly Glu Asp Gly Thr Glu Tyr Asn Phe Cys Ser Ser Asp
 450 455 460
 Thr Val Glu Glu Asn Val Leu Gln Ser Leu Tyr Pro Cys
 465 470 475

<210> 740
 <211> 303
 <212> PRT
 <213> Homo sapiens

<400> 740
 Asp Phe Arg Thr Ala Pro Gly Arg Arg Gly Arg Arg Arg Thr Glu
 1 5 10 15
 Arg Pro Gly Arg Gly Gly Pro Ala Leu Gly Ser Gln Asp Ser Arg Gly
 20 25 30
 Ser Arg Val Arg Arg Ala Ala Ala Gly Leu Ser His Cys Ser Pro Pro
 35 40 45
 Ala Arg Leu Pro Ser Gly Ala Met Ala Gly Ser Ser Ser Leu Glu Ala
 50 55 60
 Val Arg Arg Lys Ile Arg Ser Leu Gln Glu Gln Ala Asp Ala Ala Glu
 65 70 75 80
 Glu Arg Ala Gly Thr Leu Gln Arg Glu Leu Asp His Glu Arg Lys Leu
 85 90 95
 Arg Glu Thr Ala Glu Ala Asp Val Ala Ser Leu Asn Arg Arg Ile Gln
 100 105 110
 Leu Val Glu Glu Glu Leu Asp Arg Ala Gln Glu Arg Leu Ala Thr Ala
 115 120 125
 Leu Gln Lys Leu Glu Glu Ala Glu Lys Ala Ala Asp Glu Ser Glu Arg
 130 135 140

688

Gly Met Lys Val Ile Glu Ser Arg Ala Gln Lys Asp Glu Glu Lys Met
 145 150 155 160

Glu Ile Gln Glu Ile Gln Leu Lys Glu Ala Lys His Ile Ala Glu Asp
 165 170 175

Ala Asp Arg Lys Tyr Glu Glu Val Ala Arg Lys Leu Val Ile Ile Glu
 180 185 190

Ser Asp Leu Glu Arg Ala Glu Glu Arg Ala Glu Leu Ser Glu Gly Gln
 195 200 205

Val Arg Gln Leu Glu Glu Gln Leu Arg Ile Met Asp Gln Thr Leu Lys
 210 215 220

Ala Leu Met Ala Ala Glu Asp Lys Tyr Ser Gln Lys Glu Asp Arg Tyr
 225 230 235 240

Glu Glu Glu Ile Lys Val Leu Ser Asp Lys Leu Lys Glu Ala Glu Thr
 245 250 255

Arg Ala Glu Phe Ala Glu Arg Ser Val Thr Lys Leu Glu Lys Ser Ile
 260 265 270

Asp Asp Leu Glu Glu Lys Val Ala His Ala Lys Glu Glu Asn Leu Ser
 275 280 285

Met His Gln Met Leu Asp Gln Thr Leu Leu Glu Leu Asn Asn Met
 290 295 300

<210> 741

<211> 363

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (340)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (344)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 741

His	Xaa	Pro	Arg	Leu	Pro	Ala	Leu	Pro	Pro	Arg	Leu	Leu	Ser	Pro	Ser	1	5	10	15
Ala	Ala	Thr	Met	Ser	Ala	Ser	Ala	Val	Phe	Ile	Leu	Asp	Val	Lys	Gly	20	25	30	
Lys	Pro	Leu	Ile	Ser	Arg	Asn	Tyr	Lys	Gly	Asp	Val	Ala	Met	Ser	Lys	35	40	45	
Ile	Glu	His	Phe	Met	Pro	Leu	Leu	Val	Gln	Arg	Glu	Glu	Glu	Gly	Ala	50	55	60	
Leu	Ala	Pro	Leu	Leu	Ser	His	Gly	Gln	Val	His	Phe	Leu	Trp	Ile	Lys	65	70	75	80
His	Ser	Asn	Leu	Tyr	Leu	Val	Ala	Thr	Thr	Ser	Lys	Asn	Ala	Asn	Ala	85	90	95	
Ser	Leu	Val	Tyr	Ser	Phe	Leu	Tyr	Lys	Thr	Ile	Glu	Val	Phe	Cys	Glu	100	105	110	
Tyr	Phe	Lys	Glu	Leu	Glu	Glu	Glu	Ser	Ile	Arg	Asp	Asn	Phe	Val	Ile	115	120	125	
Val	Tyr	Glu	Leu	Leu	Asp	Glu	Leu	Met	Asp	Phe	Gly	Phe	Pro	Gln	Xaa	130	135	140	
Thr	Asp	Ser	Lys	Ile	Leu	Gln	Glu	Tyr	Ile	Thr	Gln	Gln	Ser	Asn	Lys	145	150	155	160
Leu	Glu	Thr	Gly	Lys	Ser	Arg	Val	Pro	Pro	Thr	Val	Thr	Asn	Ala	Val	165	170	175	
Ser	Trp	Arg	Ser	Glu	Gly	Ile	Lys	Tyr	Lys	Lys	Asn	Glu	Val	Phe	Ile	180	185	190	
Asp	Val	Ile	Glu	Ser	Val	Asn	Leu	Leu	Val	Asn	Ala	Asn	Gly	Ser	Val	195	200	205	
Leu	Leu	Ser	Glu	Ile	Val	Gly	Thr	Ile	Lys	Leu	Lys	Val	Phe	Leu	Ser	210	215	220	
Gly	Met	Pro	Glu	Leu	Arg	Leu	Gly	Leu	Asn	Asp	Arg	Val	Leu	Phe	Glu				

691

<210> 743
 <211> 95
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (4)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 743
 Thr Glu Lys Xaa Ile Lys Ile Ser Gly Phe Phe Leu Gly Tyr His Tyr
 1 5 10 15
 Cys Leu Ile Ser Leu Cys Gln Val Tyr Arg Thr Cys His Thr Phe Met
 20 25 30
 Ile Ser Ser Thr Glu Lys Leu Leu Ile Gln Ile Ser Pro Gly His Val
 35 40 45
 Arg Gln Asn Ile Ala Gly Trp Asp Phe Lys Val Ser Asp Asp Ala Phe
 50 55 60
 Pro Pro Ser Thr Asp Pro Pro Ala Pro Leu Ala Gly His Gly Glu Ala
 65 70 75 80
 Glu Ser His Leu Thr Ile Gln Lys Tyr Met Thr Thr Ser Pro Leu
 85 90 95

<210> 744
 <211> 237
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (207)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 744
 Arg Gly Gly Arg Ala Arg Gly Gly Gln Gly Pro Arg Leu Asn Ile Cys
 1 5 10 15
 Gly Ile Cys Gly Lys Ser Phe Gly Arg Gly Ser Thr Leu Ile Gln His
 20 25 30
 Gln Arg Ile His Thr Gly Glu Lys Pro Tyr Lys Cys Glu Val Cys Ser
 35 40 45

692

Lys Ala Phe Ser Gln Ser Ser Asp Leu Ile Lys His Gln Arg Thr His
 50 55 60
 Thr Gly Glu Arg Pro Tyr Lys Cys Pro Arg Cys Gly Lys Ala Phe Ala
 65 70 75 80
 Asp Ser Ser Tyr Leu Leu Arg His Gln Arg Thr His Ser Gly Gln Lys
 85 90 95
 Pro Tyr Lys Cys Pro His Cys Gly Lys Ala Phe Gly Asp Ser Ser Tyr
 100 105 110
 Leu Leu Arg His Gln Arg Thr His Ser His Glu Arg Pro Tyr Ser Cys
 115 120 125
 Thr Glu Cys Gly Lys Cys Tyr Ser Gln Asn Ser Ser Leu Arg Ser Ile
 130 135 140
 Arg Gly Cys Thr Pro Val Arg Gly Pro Ser Ala Val Ala Ser Ala Ala
 145 150 155 160
 Arg Ala Ser Pro Ser Gly Arg Pro Leu Ser Pro Met Pro Ala Ala Thr
 165 170 175
 Pro Gly Arg Ser Pro Ser Ser Ala Leu Ser Ala Ala Ser Ala Leu Ala
 180 185 190
 Arg Ala Arg Cys Trp Pro Ser Thr Pro Ala Pro Thr Cys Gln Xaa Ala
 195 200 205
 Pro Thr Ala Ala Pro Thr Ala Ala Arg Pro Ser Ile Ala Pro Pro Leu
 210 215 220
 Ser Ser Ser Thr Ser Ala Pro Thr Arg Ala Ser Gly Pro
 225 230 235

<210> 745

<211> 267

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (191)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 745

Asp Thr Ser Val Thr Met Trp Phe Leu Val Leu Cys Leu Ala Leu Ser
 1 5 10 15

693

Leu Gly Gly Thr Gly Ala Ala Pro Pro Ile Gln Ser Arg Ile Val Gly
 20 25 30

Gly Trp Glu Cys Glu Gln His Ser Gln Pro Trp Gln Ala Ala Leu Tyr
 35 40 45

His Phe Ser Thr Phe Gln Cys Gly Gly Ile Leu Val His Arg Gln Trp
 50 55 60

Val Leu Thr Ala Ala His Cys Ile Ser Asp Asn Tyr Gln Leu Trp Leu
 65 70 75 80

Gly Arg His Asn Leu Phe Asp Asp Glu Asn Thr Ala Gln Phe Val His
 85 90 95

Val Ser Glu Ser Phe Pro His Pro Gly Phe Asn Met Ser Leu Leu Glu
 100 105 110

Asn His Thr Arg Gln Ala Asp Glu Asp Tyr Ser His Asp Leu Met Leu
 115 120 125

Leu Arg Leu Thr Glu Pro Ala Asp Thr Ile Thr Asp Ala Val Lys Val
 130 135 140

Val Glu Leu Pro Thr Gln Glu Pro Glu Val Gly Ser Thr Cys Leu Ala
 145 150 155 160

Ser Gly Trp Gly Ser Ile Glu Pro Glu Asn Phe Ser Phe Pro Asp Asp
 165 170 175

Leu Gln Cys Val Asp Leu Lys Ile Leu Pro Asn Asp Glu Cys Xaa Lys
 180 185 190

Ala His Val Gln Lys Val Thr Asp Phe Met Leu Cys Val Gly His Leu
 195 200 205

Glu Gly Gly Lys Asp Thr Cys Val Gly Asp Ser Gly Gly Pro Leu Met
 210 215 220

Cys Asp Gly Val Leu Gln Gly Val Thr Ser Trp Gly Tyr Val Pro Cys
 225 230 235 240

Gly Thr Pro Asn Lys Pro Ser Val Ala Val Arg Val Leu Ser Tyr Val
 245 250 255

Lys Trp Ile Glu Asp Thr Ile Ala Glu Asn Ser
 260 265

694

<210> 746
 <211> 169
 <212> PRT
 <213> Homo sapiens

<400> 746
 Arg Leu Arg Ser Gly Pro Trp Ile Ser Ser Lys Met Ala Ala Arg Ser
 1 5 10 15
 Val Ser Gly Ile Thr Arg Arg Val Phe Met Trp Thr Val Ser Gly Thr
 20 25 30
 Pro Cys Arg Glu Phe Trp Ser Arg Phe Arg Lys Glu Lys Glu Pro Val
 35 40 45
 Val Val Glu Thr Val Glu Glu Lys Lys Glu Pro Ile Leu Val Cys Pro
 50 55 60
 Pro Leu Arg Ser Arg Ala Tyr Thr Pro Pro Glu Asp Leu Gln Ser Arg
 65 70 75 80
 Leu Glu Ser Tyr Val Lys Glu Val Phe Gly Ser Ser Leu Pro Ser Asn
 85 90 95
 Trp Gln Asp Ile Ser Leu Glu Asp Ser Arg Leu Lys Phe Asn Leu Leu
 100 105 110
 Ala His Leu Ala Asp Asp Leu Gly His Val Val Pro Asn Ser Arg Leu
 115 120 125
 His Gln Met Cys Arg Val Arg Asp Val Leu Asp Phe Tyr Asn Val Pro
 130 135 140
 Ile Gln Asp Arg Ser Lys Phe Asp Glu Leu Ser Ala Ser Asn Leu Pro
 145 150 155 160
 Pro Asn Leu Lys Ile Thr Trp Ser Tyr
 165

<210> 747
 <211> 414
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (14)
 <223> Xaa equals any of the naturally occurring L-amino acids

695

<400> 747

Cys Leu Val Asn Leu Pro Pro Thr Gln Thr Gln Ala Val Xaa Arg Pro
 1 5 10 15
 Ser Thr Leu Leu Pro Asn Tyr Val Leu Lys Pro Phe Phe Pro Asn Leu
 20 25 30
 Phe Pro Pro Pro Glu Ser Trp Phe Gly Ser Trp Leu Pro Ile Cys Leu
 35 40 45
 Leu Leu Leu Thr Trp Val Asn Cys Ser Ser Val Arg Trp Ala Thr Arg
 50 55 60
 Val Gln Asp Ile Phe Thr Ala Gly Lys Leu Leu Ala Leu Ala Leu Ile
 65 70 75 80
 Ile Ile Met Gly Ile Val Gln Ile Cys Lys Gly Glu Tyr Phe Trp Leu
 85 90 95
 Glu Pro Lys Asn Ala Phe Glu Asn Phe Gln Glu Pro Asp Ile Gly Leu
 100 105 110
 Val Ala Leu Ala Phe Leu Gln Gly Ser Phe Ala Tyr Gly Gly Trp Asn
 115 120 125
 Phe Leu Asn Tyr Val Thr Glu Glu Leu Val Asp Pro Tyr Lys Asn Leu
 130 135 140
 Pro Arg Ala Ile Phe Ile Ser Ile Pro Leu Val Thr Phe Val Tyr Val
 145 150 155 160
 Phe Ala Asn Val Ala Tyr Val Thr Ala Met Ser Pro Gln Glu Leu Leu
 165 170 175
 Ala Ser Asn Ala Val Ala Val Thr Phe Gly Glu Lys Leu Leu Gly Val
 180 185 190
 Met Ala Trp Ile Met Pro Ile Ser Val Ala Leu Ser Thr Phe Gly Gly
 195 200 205
 Val Asn Gly Ser Leu Phe Thr Ser Ser Arg Leu Phe Phe Ala Gly Ala
 210 215 220
 Arg Glu Gly His Leu Pro Ser Val Leu Ala Met Ile His Val Lys Arg
 225 230 235 240
 Cys Thr Pro Ile Pro Ala Leu Leu Phe Thr Cys Ile Ser Thr Leu Leu
 245 250 255
 Met Leu Val Thr Ser Asp Met Tyr Thr Leu Ile Asn Tyr Val Gly Phe
 260 265 270

696

Ile Asn Tyr Leu Phe Tyr Gly Val Thr Val Ala Gly Gln Ile Val Leu
 275 280 285

Arg Trp Lys Lys Pro Asp Ile Pro Arg Pro Ile Lys Ile Asn Leu Leu
 290 295 300

Phe Pro Ile Ile Tyr Leu Leu Phe Trp Ala Phe Leu Leu Val Phe Ser
 305 310 315 320

Leu Trp Ser Glu Pro Val Val Cys Gly Ile Gly Leu Ala Ile Met Leu
 325 330 335

Thr Gly Val Pro Val Tyr Phe Leu Gly Val Tyr Trp Gln His Lys Pro
 340 345 350

Lys Cys Phe Ser Asp Phe Ile Glu Leu Leu Thr Leu Val Ser Gln Lys
 355 360 365

Met Cys Val Val Val Tyr Pro Glu Val Glu Arg Gly Ser Gly Thr Glu
 370 375 380

Glu Ala Asn Glu Asp Met Glu Glu Gln Gln Gln Pro Met Tyr Gln Pro
 385 390 395 400

Thr Pro Thr Lys Asp Lys Asp Val Ala Gly Gln Pro Gln Pro
 405 410

<210> 748

<211> 78

<212> PRT

<213> Homo sapiens

<400> 748

His Leu Ser Gln Glu His Leu Ser Lys Ser Ile Tyr Pro Lys Ser Ile
 1 5 10 15

Tyr Pro Asp Asp Phe Ser Ile Tyr Pro Lys Ser Ile Tyr Pro Lys Asp
 20 25 30

Ser Ile Tyr Pro Lys Ser Ile Tyr Pro Arg Ala Phe Phe Pro Arg Leu
 35 40 45

Phe Ile Pro Lys Ile Leu Ala Phe Ile Pro Arg Ala Phe Thr Gln Glu
 50 55 60

His Leu Ser Gln Gly Ile Leu Phe Cys Phe Val Leu Phe Phe
 65 70 75

<210> 749
 <211> 93
 <212> PRT
 <213> Homo sapiens

<400> 749
 Met Cys Gly Cys Ser Arg His Phe Ser Val Val Val Cys Ser His Phe
 1 5 10 15
 Gly Pro Thr Pro Ala Ser Leu Ala Thr Leu Gln Leu Cys Ser Asp Phe
 20 25 30
 Cys Val Tyr Ala Trp Cys Ala Ser Leu Ala Ala Phe Ser Ser Met Gln
 35 40 45
 Pro Gly Val Asp Val Gly Lys Arg Asp Ala Phe Leu Leu Trp Lys Leu
 50 55 60
 Ser Gly Lys Leu Val Ser Ile Ser Pro Pro Leu Pro Gly Leu Pro Cys
 65 70 75 80
 Thr Pro Lys Asp Phe Val Gln Met Gly Ser Ser Ile Phe
 85 90

<210> 750
 <211> 91
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (31)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 750
 Leu Cys Phe Trp His Ile Thr Val Leu Cys His Tyr Tyr Lys Val Lys
 1 5 10 15
 His Leu Gln Arg Arg Met Ser Leu Lys Met Arg Asp Leu Leu Xaa Ile
 20 25 30
 Asn Met Pro Met Arg Ala Tyr Leu Ile Ser Leu Tyr Asn Met Gln Pro
 35 40 45
 Asn Gln Thr Phe Thr Pro Ala Glu Lys Cys Cys Pro Gly Glu Lys Glu
 50 55 60

698

Ile Tyr Lys Asp Arg Leu Ser Pro Phe Phe Cys Cys Ser Thr Lys His
 65 70 75 80

Ser Lys Lys Leu Glu Ser Phe Thr Leu Glu Ile
 85 90

<210> 751

<211> 94

<212> PRT

<213> Homo sapiens

<400> 751

Val Arg Cys Ser Phe Gln Leu Thr Ser Gly Arg Arg Thr Ser Ala Met
 1 5 10 15

Lys Val Thr Gly Ile Phe Leu Leu Ser Ala Leu Ala Leu Leu Ser Leu
 20 25 30

Ser Gly Asn Thr Gly Ala Asp Ser Leu Gly Arg Glu Ala Lys Cys Tyr
 35 40 45

Asn Glu Leu Asn Gly Cys Thr Lys Ile Tyr Asp Pro Val Cys Gly Thr
 50 55 60

Asp Gly Asn Thr Tyr Pro Asn Glu Cys Val Leu Cys Phe Glu Asn Arg
 65 70 75 80

Lys Arg Gln Thr Ser Ile Leu Ile Gln Lys Ser Gly Pro Cys
 85 90

<210> 752

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 752

Val Arg Gly Ala Gly Val Leu Glu Pro Gln Thr Ala Gln Glu Ala Pro
 1 5 10 15

Gly Arg Cys Arg Gly Ala Leu Trp Trp Val Pro Pro Thr Lys Arg Glu
 20 25 30

Gly Leu Val Cys Pro Ser Pro Ser Gly Thr Thr Gln Pro Ser Ala Ala
 35 40 45

Leu Ser Gln Thr Phe Leu Pro Cys Pro Ala Glu Leu Val Tyr Gln Glu
 50 55 60

Val Ile Leu Gln Pro Glu Arg Xaa Val Leu Trp Lys Arg Gln
 65 70 75

<210> 753

<211> 174

<212> PRT

<213> Homo sapiens

<400> 753

Ala Arg Asp Ser Leu Pro Leu Ser Met Ala Gln Thr Asn Ser Phe Phe
 1 5 10 15

Met Leu Ile Ser Ser Leu Met Phe Leu Ser Leu Ser Gln Gly Gln Glu
 20 25 30

Ser Gln Thr Glu Leu Pro Asn Pro Arg Ile Ser Cys Pro Glu Gly Thr
 35 40 45

Asn Ala Tyr Arg Ser Tyr Cys Tyr Tyr Phe Asn Glu Asp Pro Glu Thr
 50 55 60

Trp Val Asp Ala Asp Leu Tyr Cys Gln Asn Met Asn Ser Gly Asn Leu
 65 70 75 80

Val Ser Val Leu Thr Gln Ala Glu Gly Ala Phe Val Ala Ser Leu Ile
 85 90 95

Lys Glu Ser Ser Thr Asp Asp Ser Asn Val Trp Ile Gly Leu His Asp
 100 105 110

Pro Lys Lys Asn Arg Arg Trp His Trp Ser Ser Gly Ser Leu Val Ser
 115 120 125

Tyr Lys Ser Trp Asp Thr Gly Ser Pro Ser Ser Ala Asn Ala Gly Tyr
 130 135 140

Cys Ala Ser Leu Thr Ser Cys Ser Gly Phe Lys Lys Trp Lys Asp Glu
 145 150 155 160

Ser Cys Glu Lys Lys Phe Ser Phe Val Cys Lys Phe Lys Asn
 165 170

700

<210> 754

<211> 85

<212> PRT

<213> Homo sapiens

<400> 754

Cys Arg Pro Arg Ser Gly Ile Pro Gly Glu Glu Glu Glu Glu Glu
 1 5 10 15
 Asp Ser Gln Ala Glu Val Leu Lys Val Ile Arg Gln Ser Ala Gly Gln
 20 25 30
 Lys Thr Thr Cys Gly Gln Gly Leu Glu Gly Pro Trp Glu Arg Pro Pro
 35 40 45
 Pro Leu Asp Glu Ser Glu Arg Asp Gly Gly Ser Glu Asp Gln Val Glu
 50 55 60
 Asp Pro Ala Leu Ser Glu Pro Gly Glu Glu Pro Gln Arg Pro Ser Pro
 65 70 75 80
 Ser Glu Pro Gly Thr
 85

<210> 755

<211> 121

<212> PRT

<213> Homo sapiens

<400> 755

Gly Arg Val Gly Glu Gln Thr Val Pro Tyr Gly Leu Ser Asn Tyr Arg
 1 5 10 15
 Gly Ser Phe Arg Gly Lys Arg Ser Ala Gly Pro Leu Pro Gly Asn Leu
 20 25 30
 Gln Leu Ser His Arg Pro His Leu Arg Cys Ala Cys Val Gly Arg Tyr
 35 40 45
 Asp Lys Ala Cys Leu His Phe Cys Thr Gln Thr Leu Asp Val Ser Ser
 50 55 60
 Asn Ser Arg Thr Ala Glu Lys Thr Asp Lys Glu Glu Glu Gly Lys Val
 65 70 75 80
 Glu Val Lys Asp Gln Gln Ser Lys Gln Ala Leu Asp Leu His His Pro
 85 90 95

701

Lys Leu Met Pro Gly Ser Gly Leu Ala Leu Ala Pro Ser Thr Cys Pro
100 105 110

Arg Cys Leu Phe Gln Glu Gly Ala Pro
115 120

<210> 756

<211> 39

<212> PRT

<213> Homo sapiens

<400> 756

Gly Phe Ser Cys Leu Ser Leu Leu Ser Ser Cys Asp Tyr Arg His Ala
1 5 10 15

Pro Pro Cys Leu Ala Asn Phe Ile Phe Phe Ser Arg Asp Arg Ile Ser
20 25 30

Pro Cys Trp Ser Gly Trp Ser
35

<210> 757

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 757

Thr Ser Ser Thr Ile Asn Cys Ser Leu Gly Thr Phe Tyr Ala Gln Asn
1 5 10 15

Cys Ala Pro Ser Ser Glu Gln Gln Val Phe Asn Gly Pro Cys Asp Glu
20 25 30

Lys Gly Pro Ile Lys Ala Ala Gly Met Gly His Ser Pro Thr Pro His
35 40 45

Gly Pro Gly His Cys His Ser Xaa Cys Pro Ala Ser Pro Gly Leu
50 55 60

<210> 758

<211> 65
 <212> PRT
 <213> Homo sapiens

<400> 758

Leu Leu Asp Cys Phe Cys Asp Thr Asp Thr Ser Pro Leu Ser Glu His
 1 5 10 15

Pro Leu Pro Leu Asp Ser Val His Arg Lys Leu Val Ala Pro Leu Asn
 20 25 30

Thr Leu Phe Leu Pro Cys Asn Thr Ala Ser Asp Phe Glu Pro Lys Asn
 35 40 45

Lys Asp Tyr Ser Ser Gln Thr Pro Ser Gln Ile Asn Phe Val Thr Lys
 50 55 60

Leu
 65

<210> 759
 <211> 101
 <212> PRT
 <213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 759

His Pro Ala Ser Asn Leu Gly Asp Phe Arg Arg Cys Leu Asn Pro Asp
 1 5 10 15

Leu Ser Val Xaa Trp Pro His Cys Glu Pro Arg Asn Ala Thr Pro Trp
 20 25 30

Lys Pro His Thr Leu Leu Ser Pro Ser Val Leu Ile Pro Val Leu Leu
 35 40 45

Xaa Val Ser Pro Ser Trp Leu Phe Leu Glu Ser Leu Ser Phe Pro His
 50 55 60

Phe Pro Leu Pro Ala Ala Val Leu Ser Pro Val Ala Leu Asp Leu His

703

65 70 75 80
 Ser Trp Ser Asn Thr Leu Asn Ser Asn Thr Ser Val Phe Leu Pro His
 85 90 95
 Pro Leu Asp Lys Ser
 100

<210> 760
 <211> 61
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (35)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (41)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (61)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 760
 Ile Arg Ile Ala Ala Leu Asp Asp Phe Arg Thr Ser Leu Thr Met Ser
 1 5 10 15
 Ser Thr Arg Ser Gln Asn Pro His Gly Leu Lys Gln Ile Gly Leu Asp
 20 25 30
 Gln Ile Xaa Gly Arg Pro Gln Ser Xaa Ala Ser Ser Arg Cys Tyr Thr
 35 40 45
 Arg Ala Glu His Gly Pro Ser Ser Arg Tyr Met Glu Xaa
 50 55 60

<210> 761
 <211> 255
 <212> PRT
 <213> Homo sapiens

<220>

<221> SITE
 <222> (186)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (195)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (209)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 761
 Leu Thr Pro Ser Gly Phe Arg Ser Gly Arg Ser Val Pro Thr Met Gly
 1 5 10 15
 Leu Glu Leu Tyr Leu Asp Leu Leu Ser Gln Pro Cys Arg Ala Val Tyr
 20 25 30
 Ile Phe Ala Lys Lys Asn Asp Ile Pro Phe Glu Leu Arg Ile Val Asp
 35 40 45
 Leu Ile Lys Gly Gln His Leu Ser Asp Ala Phe Ala Gln Val Asn Pro
 50 55 60
 Leu Lys Lys Val Pro Ala Leu Lys Asp Gly Asp Phe Thr Leu Thr Glu
 65 70 75 80
 Ser Val Ala Ile Leu Leu Tyr Leu Thr Arg Lys Tyr Lys Val Pro Asp
 85 90 95
 Tyr Trp Tyr Pro Gln Asp Leu Gln Ala Arg Ala Arg Val Asp Glu Tyr
 100 105 110
 Leu Ala Trp Gln His Thr Thr Leu Arg Arg Ser Cys Leu Arg Ala Leu
 115 120 125
 Trp His Lys Val Met Phe Pro Val Phe Leu Gly Glu Pro Val Ser Pro
 130 135 140
 Gln Thr Leu Ala Ala Thr Leu Ala Glu Leu Asp Val Thr Leu Gln Leu
 145 150 155 160
 Leu Glu Asp Lys Phe Leu Gln Asn Lys Ala Phe Leu Thr Gly Pro His
 165 170 175
 Ile Ser Leu Ala Asp Leu Val Ala Ile Xaa Glu Leu Met His Pro Val
 180 185 190

705

Gly Ala Xaa Leu Pro Ser Leu Arg Arg Pro Thr Gln Ala Gly His Met
 195 200 205

Xaa Ala Gly Val Glu Ala Ala Val Gly Glu Asp Leu Phe Gln Glu Ala
 210 215 220

His Glu Val Ile Leu Lys Ala Lys Asp Asp Phe Pro Pro Ala Asp Pro
 225 230 235 240

Thr Ile Lys Gln Lys Leu Met Pro Trp Val Leu Ala Met Ile Arg
 245 250 255

<210> 762

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 762

Asp Glu Tyr Leu Ala Trp Gln His Thr Thr Leu Arg Arg Ser Cys Leu
 1 5 10 15

Arg Ala Leu Trp His Pro Val Gly Ala Gly Cys Gln Val Phe Glu Gly
 20 25 30

Arg Pro Lys Leu Ala Thr Trp Arg Xaa Arg Val Glu Ala Ala Val Gly
 35 40 45

Glu Asp Leu Phe Gln Glu Ala His Glu Val Ile Leu Lys Ala Lys Asp
 50 55 60

Phe Pro Pro Ala Asp Pro Thr Ile Lys Gln Lys Leu Met Pro Trp Val
 65 70 75 80

Leu Ala Met Ile Arg
 85

<210> 763

<211> 136

<212> PRT

<213> Homo sapiens

<220>

706

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 763

His	Glu	Xaa	Arg	Glu	His	Ala	Gly	Pro	Lys	Met	Ala	Ala	Ser	Arg	Tyr
1				5					10					15	

Arg	Arg	Phe	Leu	Lys	Leu	Cys	Glu	Glu	Trp	Pro	Val	Asp	Glu	Thr	Lys
			20					25					30		

Arg	Gly	Arg	Asp	Leu	Gly	Ala	Tyr	Leu	Arg	Gln	Arg	Val	Ala	Gln	Ala
			35				40					45			

Phe	Arg	Glu	Gly	Glu	Asn	Thr	Gln	Val	Ala	Glu	Pro	Glu	Ala	Cys	Asp
	50					55					60				

Gln	Met	Tyr	Glu	Ser	Leu	Ala	Arg	Leu	His	Ser	Asn	Tyr	Tyr	Lys	His
65					70					75					80

Lys	Tyr	Pro	Arg	Pro	Arg	Asp	Thr	Ser	Phe	Ser	Gly	Leu	Ser	Leu	Glu
				85					90					95	

Glu	Tyr	Lys	Leu	Ile	Leu	Ser	Thr	Asp	Thr	Leu	Glu	Glu	Leu	Lys	Glu
			100					105					110		

Ile	Asp	Lys	Gly	Met	Trp	Lys	Lys	Leu	Gln	Glu	Lys	Phe	Ala	Pro	Lys
		115					120					125			

Gly	Pro	Glu	Glu	Asp	His	Lys	Ala
	130					135	

<210> 764

<211> 302

<212> PRT

<213> Homo sapiens

<400> 764

Pro	Gly	Leu	His	Pro	Gly	Asn	Arg	Gly	Leu	Arg	Ile	Leu	Leu	Thr	Leu
1				5					10					15	

Pro	Pro	Asn	Trp	Pro	Gln	Tyr	Ile	His	Ser	Leu	Arg	Lys	Lys	Asn	Lys
			20					25					30		

Val	Pro	Thr	Ala	Lys	Lys	Arg	Asn	Arg	Ile	Lys	Arg	Tyr	Val	Ala	Ala
			35				40					45			

Gly	Arg	Ala	Ser	Met	Asn	Ser	Met	Thr	Ser	Ala	Val	Pro	Val	Ala	Asn
	50						55					60			

Ser Val Leu Val Val Ala Pro His Asn Gly Tyr Pro Val Thr Pro Gly
 65 70 75 80
 Ile Met Ser His Val Pro Leu Tyr Pro Asn Ser Gln Pro Gln Val His
 85 90 95
 Leu Val Pro Gly Asn Pro Pro Ser Leu Val Ser Asn Val Asn Gly Gln
 100 105 110
 Pro Val Gln Lys Ala Leu Lys Glu Gly Lys Thr Leu Gly Ala Ile Gln
 115 120 125
 Ile Ile Ile Gly Leu Ala His Ile Gly Leu Gly Ser Ile Met Ala Thr
 130 135 140
 Val Leu Val Gly Glu Tyr Leu Ser Ile Ser Phe Tyr Gly Gly Phe Pro
 145 150 155 160
 Phe Trp Gly Gly Leu Trp Phe Ile Ile Ser Gly Ser Leu Ser Val Ala
 165 170 175
 Ala Glu Asn Gln Pro Tyr Ser Tyr Cys Leu Leu Ser Gly Ser Leu Gly
 180 185 190
 Leu Asn Ile Val Ser Ala Ile Cys Ser Ala Val Gly Val Ile Leu Phe
 195 200 205
 Ile Thr Asp Leu Ser Ile Pro His Pro Tyr Ala Tyr Pro Asp Tyr Tyr
 210 215 220
 Pro Tyr Ala Trp Gly Val Asn Pro Gly Met Ala Ile Ser Gly Val Leu
 225 230 235 240
 Leu Val Phe Cys Leu Leu Glu Phe Gly Ile Ala Cys Ala Ser Ser His
 245 250 255
 Phe Gly Cys Gln Leu Val Cys Cys Gln Ser Ser Asn Val Ser Val Ile
 260 265 270
 Tyr Pro Asn Ile Tyr Ala Ala Asn Pro Val Ile Thr Pro Glu Pro Val
 275 280 285
 Thr Ser Pro Pro Ser Tyr Ser Ser Glu Ile Gln Ala Asn Lys
 290 295 300

<210> 765

<211> 141

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (137)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 765

Lys Met Phe Arg Lys Gly Lys Lys Arg His Ser Ser Ser Ser Ser Gln
1 5 10 15

Ser Ser Glu Ile Ser Thr Lys Ser Lys Ser Val Asp Ser Ser Leu Gly
20 25 30

Gly Leu Ser Arg Ser Ser Thr Val Ala Ser Leu Asp Thr Asp Ser Thr
35 40 45

Lys Ser Ser Gly Gln Ser Asn Asn Asn Ser Asp Thr Cys Ala Glu Phe
50 55 60

Arg Ile Lys Tyr Val Gly Ala Ile Glu Lys Leu Lys Leu Ser Glu Gly
65 70 75 80

Lys Gly Leu Glu Gly Pro Leu Asp Leu Ile Asn Tyr Ile Asp Val Ala
85 90 95

Gln Gln Asp Gly Lys Leu Pro Phe Val Pro Pro Glu Glu Glu Phe Ile
100 105 110

Met Gly Val Ser Lys Tyr Gly Ile Lys Val Phe Asn Ile Arg Ser Ile
115 120 125

Cys Lys Xaa Tyr Asn Leu Leu Arg Xaa Leu Cys Phe Arg
130 135 140

<210> 766

<211> 55

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 766

Asn Leu Cys Asn Phe Leu Tyr Leu Leu Leu Phe His Gln Arg Asn Leu
 1 5 10 15

Lys Ser Phe Phe Xaa Xaa Xaa Lys Lys Lys Lys Lys Lys Lys Lys
 20 25 30

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 35 40 45

Lys Lys Lys Gly Gly Arg Phe
 50 55

<210> 767

<211> 115

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 767

Thr Leu Asn Thr Tyr Leu Ser Phe Asn Val His Ile Asn Lys Ala Pro
 1 5 10 15

Ile Xaa Trp Ser Leu Glu Lys Lys Lys Ser Phe His Val Val Pro Arg
 20 25 30

Ser Arg Ser Arg Ser Ser Ser Gln Phe Glu Ser Arg Ser Arg Ser Ser
 35 40 45

Ser Arg Glu Arg Ser Arg Ser Arg Gly Ser Lys Ser Arg Ser Ser Ser
 50 55 60

Arg Ser Thr Gly Ala Leu Leu Pro His Glu Lys Asp Leu Ile Gln Val
 65 70 75 80

710

His His Leu Leu Leu Arg Gly Thr Glu Arg Glu Val Val Leu Asp Leu
 85 90 95

Leu His Leu Val Ile Ala Lys Lys Asp Glu Gln Asp His Gly His Pro
 100 105 110

Lys Ala Arg
 115

<210> 768

<211> 303

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (257)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 768

Val Asn Glu Ile Met Ile Leu Glu Gly Gly Gly Val Met Asn Leu Asn
 1 5 10 15

Pro Gly Asn Asn Leu Leu His Gln Pro Pro Ala Trp Thr Asp Ser Tyr
 20 25 30

Ser Thr Cys Asn Val Ser Ser Gly Phe Phe Gly Gly Gln Trp His Glu
 35 40 45

Ile His Pro Gln Tyr Trp Thr Lys Tyr Gln Val Trp Glu Trp Leu Gln
 50 55 60

His Leu Leu Asp Thr Asn Gln Leu Asp Ala Asn Cys Ile Pro Phe Gln
 65 70 75 80

Glu Phe Asp Ile Asn Gly Glu His Leu Cys Ser Met Ser Leu Gln Glu
 85 90 95

Phe Thr Arg Ala Ala Gly Thr Ala Gly Gln Leu Leu Tyr Ser Asn Leu
 100 105 110

Gln His Leu Lys Trp Asn Gly Gln Cys Ser Ser Asp Leu Phe Gln Ser
 115 120 125

Thr His Asn Val Ile Val Lys Thr Glu Gln Thr Glu Pro Ser Ile Met
 130 135 140

Asn Thr Trp Lys Asp Glu Asn Tyr Leu Tyr Asp Thr Asn Tyr Gly Ser

711

145 150 155 160
 Thr Val Asp Leu Leu Asp Ser Lys Thr Phe Cys Arg Ala Gln Ile Ser
 165 170 175
 Met Thr Thr Thr Ser His Leu Pro Val Glu Ser Pro Asp Met Lys Lys
 180 185 190
 Glu Gln Asp Pro Pro Ala Lys Cys His Thr Lys Lys His Asn Pro Arg
 195 200 205
 Gly Thr His Leu Trp Glu Phe Ile Arg Asp Ile Leu Leu Asn Pro Asp
 210 215 220
 Lys Asn Pro Gly Leu Ile Lys Trp Glu Asp Arg Ser Glu Gly Val Phe
 225 230 235 240
 Arg Phe Leu Lys Ser Glu Ala Val Ala Gln Leu Trp Gly Lys Lys Lys
 245 250 255
 Xaa Asn Ser Ser Met Thr Tyr Glu Lys Leu Ser Arg Ala Met Arg Tyr
 260 265 270
 Tyr Tyr Lys Arg Glu Ile Leu Glu Arg Val Asp Gly Arg Arg Leu Val
 275 280 285
 Tyr Lys Phe Gly Lys Asn Ala Arg Gly Trp Arg Glu Asn Glu Asn
 290 295 300

<210> 769

<211> 95

<212> PRT

<213> Homo sapiens

<400> 769

Asn Met Tyr Gly Thr Ser Cys Leu Ile Leu His Val Thr Ser Leu Leu
 1 5 10 15
 Tyr Ile Asp Glu Val Leu Val Thr Leu Ser Ser Asn Thr Leu Pro Leu
 20 25 30
 Leu Phe Arg Glu Cys Leu Arg Asp Phe Leu Tyr Trp Phe Tyr Tyr Ser
 35 40 45
 Asp Tyr Gly Leu Asp Leu Ser Ile Leu Leu Leu Pro Pro Gly Phe Leu
 50 55 60
 Ile Ile His Pro Ser Lys Leu Ile Phe Cys Glu Ala Phe Val Ser Gln
 65 70 75 80

Ile Lys Thr Leu Leu Glu Pro Lys Val Val Ala Asp Gly Tyr Leu
 85 90 95

<210> 770

<211> 247

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 770

Gly Ser Arg Ser Arg Ala Ala Ala Arg Glu Gln Leu Pro Lys Ser Val
 1 5 10 15

Pro Cys Gly Ala Gly Ala Gly Arg Gly Phe Ala Glu Ala Pro Arg His
 20 25 30

Ser Glu Glu Val Arg Glu Arg Arg Gln Thr Thr Gly Asp Pro Gly Pro
 35 40 45

Ala Ala Arg Ala Glu Pro Ser Val Pro Ala Cys Val Pro Ala Cys Pro
 50 55 60

Arg Gly Cys Val Phe Ala Gly Val Cys Cys Val His Arg Cys Phe Cys
 65 70 75 80

Gly Arg Arg His Val Arg Thr Gly Trp Gly Cys Pro Ser Glu Pro Met
 85 90 95

Arg His Lys Ala Cys Arg Arg Leu Phe Gly Pro Val Asp Ser Glu Gln
 100 105 110

Leu Ser Arg Asp Cys Asp Ala Leu Met Ala Gly Cys Ile Gln Glu Ala
 115 120 125

Arg Glu Xaa Trp Asn Phe Asp Phe Val Thr Glu Thr Pro Leu Glu Gly
 130 135 140

Asp Phe Ala Trp Glu Arg Val Arg Gly Leu Gly Leu Pro Lys Leu Tyr
 145 150 155 160

Leu Pro Thr Gly Pro Arg Arg Gly Arg Asp Glu Leu Gly Gly Gly Arg
 165 170 175

Arg Pro Gly Thr Ser Pro Ala Leu Leu Gln Gly Thr Ala Glu Glu Asp

713

180 185 190
 His Val Asp Leu Ser Leu Ser Cys Thr Leu Val Pro Arg Ser Gly Glu
 195 200 205
 Gln Ala Glu Gly Ser Pro Gly Gly Pro Gly Asp Ser Gln Gly Arg Lys
 210 215 220
 Arg Arg Gln Thr Ser Met Thr Asp Phe Tyr His Ser Lys Arg Arg Leu
 225 230 235 240
 Ile Phe Ser Lys Arg Lys Pro
 245

<210> 771
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 771
 Cys Ile Cys Leu Ser Cys Ala Thr Gly Ala Ser Asn Gln His Ile His
 1 5 10 15
 Gln His Pro Ser Gly Gly Val His Gly Arg Val Pro Ser Leu Phe Leu
 20 25 30
 Leu His Phe Ser Phe Phe Ser Phe Leu Leu Lys Leu Leu Phe Asn Ser
 35 40 45
 Ala Lys Gly Ser Phe Phe Phe Ala Phe Leu Asn Leu Asn Phe Phe Asn
 50 55 60
 Leu His Phe Leu Val Leu Ile Phe Leu Tyr Ile Leu Leu Ala Met Ser
 65 70 75 80
 Phe

<210> 772
 <211> 281
 <212> PRT
 <213> Homo sapiens

<400> 772
 Ser Val Arg Ser Asn Ser Gly Ser Thr Thr Arg Pro Leu Ser Pro Pro
 1 5 10 15

Ile Pro Arg Thr Ser Asn Lys Val Pro Val Val Gln Pro Ser His Ala
 20 25 30
 Val His Pro Leu Thr Pro Leu Ile Thr Tyr Ser Asp Glu His Phe Ser
 35 40 45
 Pro Gly Ser His Pro Ser His Ile Pro Ser Asp Val Asn Ser Lys Gln
 50 55 60
 Gly Met Ser Arg His Pro Pro Ala Pro Asp Ile Pro Thr Phe Tyr Pro
 65 70 75 80
 Leu Ser Pro Gly Gly Val Gly Gln Ile Thr Pro Pro Leu Gly Trp Gln
 85 90 95
 Gly Gln Pro Val Tyr Pro Ile Thr Gly Gly Phe Arg Gln Pro Tyr Pro
 100 105 110
 Ser Ser Leu Ser Val Asp Thr Ser Met Ser Arg Phe Ser His His Met
 115 120 125
 Ile Pro Gly Pro Pro Gly Pro His Thr Thr Gly Ile Pro His Pro Ala
 130 135 140
 Ile Val Thr Pro Gln Val Lys Gln Glu His Pro His Thr Asp Ser Asp
 145 150 155 160
 Leu Met His Val Lys Pro Gln His Glu Gln Arg Lys Glu Gln Glu Pro
 165 170 175
 Lys Arg Pro His Ile Lys Lys Pro Leu Asn Ala Phe Met Leu Tyr Met
 180 185 190
 Lys Glu Met Arg Ala Asn Val Val Ala Glu Cys Thr Leu Lys Glu Ser
 195 200 205
 Ala Ala Ile Asn Gln Ile Leu Gly Arg Arg Trp His Ala Leu Ser Arg
 210 215 220
 Glu Glu Gln Ala Lys Tyr Tyr Glu Leu Ala Arg Lys Glu Arg Gln Leu
 225 230 235 240
 His Met Gln Leu Tyr Pro Gly Trp Ser Ala Arg Asp Asn Tyr Gly Lys
 245 250 255
 Lys Lys Lys Arg Lys Arg Glu Lys Leu Gln Glu Ser Ala Ser Gly Thr
 260 265 270
 Gly Pro Arg Met Thr Ala Ala Tyr Ile
 275 280

715

<210> 773

<211> 195

<212> PRT

<213> Homo sapiens

<400> 773

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Lys Ile Pro Phe Leu Gly Val Cys Leu Gly Met Gln Leu Ala Val Ile
  1             5             10             15

Glu Phe Ala Arg Asn Cys Leu Asn Leu Lys Asp Ala Asp Ser Thr Glu
      20             25             30

Phe Arg Pro Asn Ala Pro Val Pro Leu Val Ile Asp Met Pro Glu His
      35             40             45

Asn Pro Gly Asn Leu Gly Gly Thr Met Arg Leu Gly Ile Arg Arg Thr
      50             55             60

Val Phe Lys Thr Glu Asn Ser Ile Leu Arg Lys Leu Tyr Gly Asp Val
      65             70             75             80

Pro Phe Ile Glu Glu Arg His Arg His Arg Phe Glu Val Asn Pro Asn
      85             90             95

Leu Ile Lys Gln Phe Glu Gln Asn Asp Leu Ser Phe Val Gly Gln Asp
      100            105            110

Val Asp Gly Asp Arg Met Glu Ile Ile Glu Leu Ala Asn His Pro Tyr
      115            120            125

Phe Val Gly Val Gln Phe His Pro Glu Phe Ser Ser Arg Pro Met Lys
      130            135            140

Pro Ser Pro Pro Tyr Leu Gly Leu Leu Leu Ala Ala Thr Gly Asn Leu
      145            150            155            160

Asn Ala Tyr Leu Gln Gln Gly Cys Lys Leu Ser Ser Ser Asp Arg Tyr
      165            170            175

Ser Asp Ala Ser Asp Asp Ser Phe Ser Glu Pro Arg Ile Ala Glu Leu
      180            185            190

Glu Ile Ser
      195

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<210> 774

<211> 90

716

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 774

Glu Lys Gly Pro Ser Val Ser Val Lys Pro Lys Ala Gly Phe Cys Leu
1 5 10 15

Ala Gly Leu Arg Ser Gly Thr His Ser Trp Thr Asn His Asp Ile Pro
20 25 30

Asp Gly Val Thr Trp Pro Thr Cys Arg Lys Gly Val Gly Ser Val Pro
35 40 45

Glu Asp Arg Arg Gly Gly Val Gln Ile Gly Gln Glu Val Met Ala Ser
50 55 60

Gln Ala Pro Asn Cys Cys Asn Pro Gly Gly Gln Pro Xaa Val Glu Thr
65 70 75 80

Thr Gly Phe Arg Ala Val Pro Leu Pro Ser.
85 90

<210> 775

<211> 205

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (138)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (141)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 775

Ser	Cys	Arg	Ser	Thr	Leu	Val	Asp	Pro	Lys	Lys	Xaa	Gly	Thr	Arg	Glu
1				5					10					15	

Trp	Gln	Gln	Val	Asp	Arg	Gln	Leu	Pro	Ser	Leu	Ala	Cys	Lys	Tyr	Pro
			20					25					30		

Val	Ser	Ser	Arg	Glu	Ala	Thr	Gln	Ile	Leu	Ser	Val	Pro	Lys	Val	Asp
		35					40					45			

Asp	Glu	Ile	Leu	Gly	Phe	Ile	Ser	Glu	Ala	Thr	Pro	Leu	Gly	Gly	Ile
	50					55					60				

Gln	Ala	Ala	Ser	Thr	Glu	Ser	Cys	Asn	Gln	Gln	Leu	Asp	Leu	Ala	Leu
65					70					75					80

Cys	Arg	Ala	Tyr	Glu	Ala	Ala	Ala	Ser	Ala	Leu	Gln	Ile	Ala	Thr	His
				85					90					95	

Thr	Ala	Phe	Val	Ala	Lys	Ala	Met	Gln	Ala	Asp	Ile	Ser	Xaa	Ala	Ala
			100					105					110		

Gln	Ile	Leu	Ser	Ser	Asp	Pro	Ser	Arg	Thr	His	Gln	Ala	Leu	Gly	Ile
	115						120					125			

Leu	Ser	Xaa	Thr	Tyr	Asp	Ala	Ala	Ser	Xaa	Ile	Cys	Xaa	Ala	Ala	Phe
	130					135					140				

Asp	Glu	Val	Lys	Met	Ala	Ala	His	Thr	Met	Gly	Asn	Ala	Thr	Val	Gly
145					150					155					160

Arg	Arg	Tyr	Leu	Trp	Leu	Lys	Asp	Cys	Lys	Ile	Asn	Leu	Ala	Ser	Lys
			165						170					175	

Asn	Lys	Leu	Ala	Ser	Thr	Pro	Phe	Lys	Gly	Gly	Thr	Leu	Phe	Gly	Gly
		180						185					190		

Glu	Val	Cys	Lys	Val	Ile	Lys	Lys	Arg	Gly	Asn	Lys	His
	195						200					205

<210> 776

718

<211> 99
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 776

Phe Ser Thr Arg Pro Ile Xaa Leu Thr Leu Met Leu Met Ala Val Leu
1 5 10 15

Asn Cys Leu Phe Asp Ser Leu Ser Gln Met Leu Arg Lys Asn Val Glu
20 25 30

Lys Arg Ala Leu Leu Glu Asn Met Glu Gly Leu Phe Leu Ala Val Asp
35 40 45

Glu Ile Val Asp Gly Gly Val Ile Leu Glu Ser Asp Pro Gln Gln Val
50 55 60

Val His Arg Val Ala Leu Arg Gly Glu Asp Val Pro Leu Thr Glu Gln
65 70 75 80

Thr Val Ser Gln Val Leu Gln Ser Ala Lys Glu Gln Ile Lys Trp Ser
85 90 95

Leu Leu Arg

<210> 777
<211> 211
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (137)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 777

Leu Gly Asp Thr Ile Glu Gly Thr Pro Xaa Gly Thr Gly Ser Gly Ile
1 5 10 15

Pro Gly Ser Thr His Ala Ser Arg Glu Glu Lys Ser Lys Gln Phe Leu
 20 25 30
 Asp Leu Met Glu Thr Ile Asp Lys Gln Arg Glu Glu Met Ala Lys Ser
 35 40 45
 Ser Arg Ala Ser Ala Ala Arg Val Gly Lys Leu Gln Glu Ala Leu Asn
 50 55 60
 Glu Arg His Ser Ile Ile Asn Ala Leu Lys Ala Lys Leu Gln Met Thr
 65 70 75 80
 Glu Ala Ala Leu Ala Leu Ser Glu Gln Lys Ala Gln Asp Leu Gly Glu
 85 90 95
 Leu Leu Ala Thr Ala Glu Gln Glu Gln Leu Ser Leu Ser Gln Arg Gln
 100 105 110
 Ala Lys Glu Leu Lys Leu Glu Gln Gln Glu Ala Ala Glu Arg Glu Ser
 115 120 125
 Lys Leu Leu Arg Asp Leu Ser Ala Xaa Asn Glu Lys Asn Leu Leu Leu
 130 135 140
 Gln Asn Gln Val Asp Glu Leu Glu Arg Lys Phe Arg Cys Gln Gln Glu
 145 150 155 160
 Gln Leu Phe Gln Thr Arg Gln Glu Met Thr Ser Met Ser Ala Glu Leu
 165 170 175
 Lys Met Arg Ala Ile Gln Ala Arg Ser Ala Trp Thr Trp Arg Arg Glu
 180 185 190
 Asp Ala Asp Arg Ala Trp Arg Thr Pro Lys Ala Cys Ala Ser Arg Arg
 195 200 205
 Trp Ser Ile
 210

<210> 778

<211> 181

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (155)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (163)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 778

Gly	Arg	Gly	Gly	Ala	Gly	Arg	Gly	Val	Pro	Leu	Val	Gly	Ser	Gly	Pro
1				5					10					15	

Arg	Ile	Leu	Ser	Ala	Gly	Ser	Arg	Arg	Pro	Arg	Ser	Cys	Ala	Pro	Pro
			20					25					30		

Pro	Gly	Pro	Gly	Leu	Gly	Arg	Val	Pro	Arg	Val	Leu	Gly	Ser	Phe	Cys
	35						40					45			

Pro	Pro	Val	Leu	Gln	Arg	Ser	Arg	Phe	Gln	Pro	Gly	Cys	Pro	Arg	Met
	50					55					60				

Gly	Glu	Phe	Asn	Glu	Lys	Lys	Thr	Thr	Cys	Gly	Thr	Val	Cys	Leu	Lys
65					70					75					80

Tyr	Leu	Leu	Phe	Thr	Tyr	Asn	Cys	Cys	Phe	Trp	Leu	Ala	Gly	Leu	Ala
				85					90					95	

Val	Met	Ala	Val	Gly	Ile	Trp	Thr	Leu	Ala	Leu	Lys	Ser	Asp	Tyr	Ile
		100						105					110		

Ser	Leu	Leu	Ala	Ser	Gly	Thr	Tyr	Leu	Ala	Thr	Ala	Tyr	Ile	Leu	Val
		115					120					125			

Val	Ala	Gly	Thr	Val	Val	Met	Val	Thr	Gly	Val	Leu	Gly	Cys	Cys	Ala
	130					135					140				

Xaa	Phe	Lys	Glu	Arg	Arg	Asn	Leu	Leu	Arg	Xaa	Tyr	Phe	Ile	Leu	Leu
145						150				155				160	

Leu	Ile	Xaa	Phe	Leu	Ala	Gly	Asp	Xaa	Arg	Trp	Tyr	Pro	Arg	Leu	Arg
				165					170					175	

Leu	Ile	Thr	Ser	Ser
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721

180

<210> 779
 <211> 132
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (6)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 779
 Ser Arg Ala Lys Arg Xaa Pro Lys Ser Lys Glu Leu Val Ser Ser Ser
 1 5 10 15
 Ser Ser Gly Ser Asp Ser Asp Ser Glu Val Asp Lys Lys Leu Lys Arg
 20 25 30
 Lys Lys Gln Val Ala Pro Glu Lys Pro Val Lys Lys Gln Lys Thr Gly
 35 40 45
 Glu Thr Ser Arg Ala Leu Ser Ser Ser Lys Gln Ser Ser Ser Ser Arg
 50 55 60
 Asp Asp Asn Met Phe Gln Ile Gly Lys Met Arg Tyr Val Ser Val Arg
 65 70 75 80
 Asp Phe Lys Gly Lys Val Leu Ile Asp Ile Arg Glu Tyr Trp Met Asp
 85 90 95
 Pro Glu Gly Glu Met Lys Pro Gly Arg Lys Gly Ile Ser Leu Asn Pro
 100 105 110
 Glu Gln Trp Ser Gln Leu Lys Glu Gln Ile Ser Asp Ile Asp Asp Ala
 115 120 125
 Val Arg Lys Leu
 130

<210> 780
 <211> 370
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 780

Asp Asn Lys Lys Tyr Glu Ile Ile Lys Arg Asp Ile Leu Arg Gly Lys
 1 5 10 15

Ser Val Pro His Tyr Ala Ala Ile Glu Pro Asp Gly Asn Gly Leu Met
 20 25 30

Ile Val Ser Tyr Lys Ser Xaa Thr Phe Val Gln Ala Gly Gln Asp Leu
 35 40 45

Glu Glu Asn Met Asp Glu Asp Xaa Ser Glu Lys Ile Lys Glu Pro Leu
 50 55 60

Tyr Tyr Trp Gln Gln Thr Glu Asp Asp Leu Thr Val Thr Ile Arg Leu
 65 70 75 80

Pro Glu Asp Ser Thr Lys Glu Asp Ile Gln Ile Gln Phe Leu Pro Asp
 85 90 95

His Ile Asn Ile Val Leu Lys Asp His Gln Phe Leu Glu Gly Lys Leu
 100 105 110

Tyr Ser Ser Ile Asp His Glu Ser Ser Thr Trp Ile Ile Lys Glu Ser
 115 120 125

Asn Ser Leu Glu Ile Ser Leu Ile Lys Lys Asn Glu Gly Leu Thr Trp
 130 135 140

Pro Glu Leu Val Ile Gly Asp Lys Gln Gly Glu Leu Ile Arg Asp Ser
 145 150 155 160

Ala Gln Cys Ala Ala Ile Ala Glu Arg Leu Met His Leu Thr Ser Glu
 165 170 175

Glu Leu Asn Pro Asn Pro Asp Lys Glu Lys Pro Pro Cys Asn Ala Gln
 180 185 190

Glu Leu Glu Glu Cys Asp Ile Phe Phe Glu Glu Ser Ser Ser Leu Cys
 195 200 205

Arg Phe Asp Gly Asn Thr Leu Lys Thr Thr His Val Val Asn Leu Gly
 210 215 220

Ser Asn Gln Tyr Leu Phe Ser Val Ile Val Asp Pro Lys Glu Met Pro
 225 230 235 240

Cys Phe Cys Leu Arg His Asp Val Asp Ala Leu Leu Trp Gln Pro His
 245 250 255

Ser Ser Lys Gln Asp Asp Met Trp Glu His Ile Ala Thr Phe Asn Ala
 260 265 270

Leu Gly Tyr Val Gln Ala Ser Lys Arg Asp Lys Lys Phe Phe Ala Cys
 275 280 285

Ala Pro Asn Tyr Ser Tyr Ala Ala Leu Cys Glu Cys Leu Arg Arg Val
 290 295 300

Phe Ile Tyr Arg Gln Pro Ala Pro Met Ser Thr Val Leu Tyr Asn Arg
 305 310 315 320

Lys Glu Gly Arg Gln Val Gly Gln Val Ala Lys Gln Gln Val Ala Ser
 325 330 335

Leu Glu Thr Asn Asp Pro Ile Leu Gly Phe Gln Ala Thr Asn Glu Arg
 340 345 350

Leu Phe Val Leu Thr Thr Lys Asn Leu Phe Leu Ile Lys Val Asn Thr
 355 360 365

Glu Asn
 370

<210> 781

<211> 259

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (215)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (227)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (228)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (247)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (251)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (257)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (259)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 781

Gly	Gly	Asp	Pro	Gly	Gly	Gly	Gly	Arg	Ser	Pro	Ala	Leu	Arg	Gln	Lys
1				5				10						15	

Val	Pro	Arg	Leu	His	Thr	Arg	Ala	Arg	Ser	Gln	Arg	Ala	Ala	Gly	Ala
			20					25					30		

Asp	Gly	Arg	Arg	Gly	Gly	Arg	Arg	Gln	Gly	Arg	Ser	Val	Tyr	Ser	Cys
		35					40					45			

Ser	Gly	Ala	Val	Ser	Trp	Arg	Arg	Leu	Gly	Arg	Leu	Leu	Ser	Pro	Gly
		50				55					60				

Ser	Ala	Ala	Ala	Ala	Lys	Ala	Ala	Ala	Pro	Ala	Leu	Ser	Leu	Ser	Leu
	65				70					75					80

Ser	Arg	Leu	Trp	Leu	Gln	Val	Lys	Gly	Lys	Gln	Ala	Arg	Met	Asp	Ile
			85						90					95	

Tyr	Asp	Thr	Gln	Thr	Leu	Gly	Val	Val	Val	Phe	Gly	Gly	Phe	Met	Val
			100					105					110		

Val	Ser	Ala	Ile	Gly	Ile	Phe	Leu	Val	Ser	Thr	Phe	Ser	Met	Lys	Glu
		115					120					125			

Thr	Ser	Tyr	Glu	Glu	Ala	Leu	Ala	Asn	Gln	Arg	Lys	Glu	Met	Ala	Lys
		130				135					140				

Thr	His	His	Gln	Lys	Val	Glu	Lys	Lys	Lys	Lys	Glu	Lys	Thr	Val	Glu
145					150					155					160

725

Lys Lys Gly Lys Thr Lys Lys Lys Glu Glu Lys Pro Asn Gly Lys Ile
 165 170 175

Pro Asp His Asp Pro Ala Pro Asn Val Thr Val Leu Leu Arg Glu Pro
 180 185 190

Val Arg Ala Pro Ala Val Ala Val Ala Pro Thr Pro Val Gln Pro Pro
 195 200 205

Ile Ile Val Ala Pro Val Xaa Thr Val Pro Ala Met Pro Gln Glu Lys
 210 215 220

Leu Ala Xaa Xaa Pro Lys Asp Lys Lys Lys Lys Glu Lys Lys Val Ala
 225 230 235 240

Lys Val Gly Pro Val Ser Xaa Cys Ser Asp Xaa Ile Gln Val Ser Ile
 245 250 255

Xaa Lys Xaa

<210> 782

<211> 177

<212> PRT

<213> Homo sapiens

<400> 782

Gly Ser Pro Val Glu Pro Arg Gly Ser Ala Pro Glu Ile Met Leu Asn
 1 5 10 15

Ser Lys Gly Tyr Thr Lys Ser Ile Asp Ile Trp Ser Val Gly Cys Ile
 20 25 30

Leu Ala Glu Met Leu Ser Asn Arg Pro Ile Phe Pro Gly Lys His Tyr
 35 40 45

Leu Asp Gln Leu Asn His Ile Leu Gly Ile Leu Gly Ser Pro Ser Gln
 50 55 60

Glu Asp Leu Asn Cys Ile Ile Asn Met Lys Ala Arg Asn Tyr Leu Gln
 65 70 75 80

Ser Leu Pro Ser Lys Thr Lys Val Ala Trp Ala Lys Leu Phe Pro Lys
 85 90 95

Ser Asp Ser Lys Ala Leu Asp Leu Leu Asp Arg Met Leu Thr Phe Asn
 100 105 110

726

Pro Asn Lys Arg Ile Thr Val Glu Glu Ala Leu Ala His Pro Tyr Leu
 115 120 125

Glu Gln Tyr Tyr Asp Pro Thr Asp Glu Pro Val Ala Glu Glu Pro Phe
 130 135 140

Thr Phe Ala Met Glu Leu Asp Asp Leu Pro Lys Glu Arg Leu Lys Glu
 145 150 155 160

Leu Ile Phe Gln Glu Thr Ala Arg Phe Gln Pro Gly Val Leu Glu Ala
 165 170 175

Pro

<210> 783

<211> 154

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (153)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 783

His Leu Tyr Ala Phe Phe Ile Gln Trp Ser Pro Glu Ile Tyr Ala Glu
 1 5 10 15

Asp Thr Gly Glu Tyr Thr Arg Glu Pro Gly Phe Ile Val Val Lys Lys
 20 25 30

Ile Glu Glu Ser Glu Thr Ile Glu Asp Ser Ser Asn Gln Ala Ala Ala
 35 40 45

Arg Glu Trp Glu Ile Thr Thr Arg Glu Asp Ile Asn Ser Lys Gln Val
 50 55 60

Ala Thr Val Lys Ala Asp Leu Glu Ser Glu Ser Phe Arg Pro Asn Leu
 65 70 75 80

Ser Asp Pro Ser Glu Leu Leu Leu Pro Asp Gln Ile Glu Lys Leu Thr
 85 90 95

Lys His Leu Pro Pro Arg Thr Ile Gly Tyr Pro Trp Thr Leu Val Tyr
 100 105 110

Gly Thr Gly Lys His Gly Thr Ser Leu Lys Thr Leu Tyr Arg Thr Met
 115 120 125

727

Thr Gly Leu Asp Thr Pro Val Leu Met Val Ile Lys Asp Ser Asp Gly
 130 135 140

Gln Val Phe Gly Ala Leu His Leu Xaa His
 145 150

<210> 784

<211> 164

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 784

Phe Leu Tyr Ser Phe Ala Arg Gln Thr Met Ala Pro Phe Gly Arg Asn
 1 5 10 15

Leu Leu Lys Thr Arg His Lys Asn Arg Ser Pro Thr Lys Asp Met Asp
 20 25 30

Ser Glu Glu Lys Glu Ile Val Val Trp Val Cys Gln Glu Glu Lys Xaa
 35 40 45

Val Cys Gly Leu Thr Lys Arg Thr Thr Ser Ala Asp Val Ile Gln Ala
 50 55 60

Leu Leu Glu Glu His Glu Ala Thr Phe Gly Glu Lys Arg Phe Leu Leu
 65 70 75 80

Gly Lys Pro Ser Asp Tyr Cys Ile Ile Glu Lys Trp Arg Gly Ser Glu
 85 90 95

Arg Val Leu Pro Pro Leu Thr Arg Ile Leu Lys Leu Trp Lys Ala Trp
 100 105 110

728

Gly Asp Glu Gln Pro Xaa Met Gln Phe Val Leu Val Lys Ala Asp Ala
 115 120 125

Phe Xaa Pro Val Pro Leu Trp Arg Thr Ala Glu Ala Lys Leu Val Gln
 130 135 140

Asn Thr Glu Lys Leu Trp Glu Leu Ser Pro Ala Asn Leu His Glu Asp
 145 150 155 160

Phe Thr Thr Arg

<210> 785

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 785

Gly Tyr Arg Leu Ser Cys Glu Val Ile Ser Ile Trp Lys Gln Val Trp
 1 5 10 15

Gly Ala Gly Gly Ala Leu Val Arg Val Leu Gly Gly Ser Gly Val Ser
 20 25 30

Val Gly Gly Ser Thr Gly Tyr Thr Gly Ala Arg Lys Glu His Gly Val
 35 40 45

Thr Cys Ser Val Gly Val Arg Leu Gly Val Gln Val Glu Glu Pro Gly
 50 55 60

Val Leu Gly Xaa Gln Ser Val Xaa
 65 70

<210> 786

<211> 332

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (298)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (303)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (323)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 786

Gly	Lys	Gln	Arg	Glu	Gly	Arg	Arg	Glu	Gly	Ile	Arg	Gln	Leu	Gln	Phe
1				5					10					15	

Ser	Ser	Leu	Gly	Ala	Pro	Thr	Pro	Arg	Cys	Pro	Ala	Ser	Cys	Pro	Gln
			20					25					30		

Pro	Gly	His	Ala	Xaa	Pro	Thr	Leu	Pro	Ala	Pro	Gln	Asn	Pro	Arg	His
		35					40					45			

Pro	Pro	Glu	Pro	Pro	Gln	Ser	Trp	Pro	Arg	Arg	Met	Gly	Ala	Leu	Arg
	50					55					60				

Pro	Thr	Leu	Leu	Pro	Pro	Ser	Leu	Pro	Leu	Leu	Leu	Leu	Leu	Met	Leu
65					70					75					80

Gly	Met	Gly	Cys	Trp	Ala	Arg	Glu	Val	Leu	Val	Pro	Glu	Gly	Pro	Leu
			85						90					95	

Tyr	Arg	Val	Ala	Gly	Thr	Ala	Val	Ser	Ile	Ser	Cys	Asn	Val	Thr	Gly
			100					105					110		

Tyr	Glu	Gly	Pro	Ala	Gln	Gln	Asn	Phe	Glu	Trp	Phe	Leu	Tyr	Arg	Pro
		115					120					125			

Glu	Ala	Pro	Asp	Thr	Ala	Leu	Gly	Ile	Val	Ser	Thr	Lys	Asp	Thr	Gln
	130					135					140				

Phe	Ser	Tyr	Ala	Val	Phe	Lys	Ser	Arg	Val	Val	Ala	Gly	Glu	Val	Gln
145						150				155					160

730

Val Gln Arg Leu Gln Gly Asp Ala Val Val Leu Lys Ile Ala Arg Leu
 165 170 175

Gln Ala Gln Asp Ala Gly Ile Tyr Glu Cys His Thr Pro Ser Thr Asp
 180 185 190

Thr Arg Tyr Leu Gly Ser Tyr Ser Gly Lys Val Glu Leu Arg Val Leu
 195 200 205

Pro Asp Val Leu Gln Val Ser Ala Ala Pro Pro Gly Pro Arg Gly Arg
 210 215 220

Gln Ala Pro Thr Ser Pro Pro Arg Met Thr Val His Glu Gly Gln Glu
 225 230 235 240

Leu Ala Leu Gly Cys Leu Ala Arg Thr Ser Thr Gln Lys His Thr His
 245 250 255

Leu Ala Val Ser Phe Gly Arg Ser Val Pro Glu Ala Pro Val Gly Arg
 260 265 270

Ser Thr Leu Gln Glu Val Val Gly Ile Arg Ser Asp Leu Ala Val Glu
 275 280 285

Ala Gly Ala Pro Tyr Ala Glu Arg Leu Xaa Ala Gly Glu Leu Xaa Leu
 290 295 300

Gly Lys Glu Gly Thr Asp Arg Tyr Arg Met Val Val Gly Gly Ala Gln
 305 310 315 320

Ala Gly Xaa Arg Arg His Leu Pro Leu His Cys Arg
 325 330

<210> 787

<211> 576

<212> PRT

<213> Homo sapiens

<400> 787

Glu Lys Glu Thr Ala Gln Leu Arg Glu Gln Val Gly Arg Met Glu Arg
 1 5 10 15

Glu Leu Asn His Glu Lys Glu Arg Cys Asp Gln Leu Gln Ala Glu Gln
 20 25 30

Lys Gly Leu Thr Glu Val Thr Gln Ser Leu Lys Met Glu Asn Glu Glu
 35 40 45

Phe Lys Lys Arg Phe Ser Asp Ala Thr Ser Lys Ala His Gln Leu Glu
 50 55 60
 Glu Asp Ile Val Ser Val Thr His Lys Ala Ile Glu Lys Glu Thr Glu
 65 70 75 80
 Leu Asp Ser Leu Lys Asp Lys Leu Lys Lys Ala Gln His Glu Arg Glu
 85 90 95
 Gln Leu Glu Cys Gln Leu Lys Thr Glu Lys Asp Glu Lys Glu Leu Tyr
 100 105 110
 Lys Val His Leu Lys Asn Thr Glu Ile Glu Asn Thr Lys Leu Met Ser
 115 120 125
 Glu Val Gln Thr Leu Lys Asn Leu Asp Gly Asn Lys Glu Ser Val Ile
 130 135 140
 Thr His Phe Lys Glu Glu Ile Gly Arg Leu Gln Leu Cys Leu Ala Glu
 145 150 155 160
 Lys Glu Asn Leu Gln Arg Thr Phe Leu Leu Thr Thr Ser Ser Lys Glu
 165 170 175
 Asp Thr Cys Phe Leu Lys Glu Gln Leu Arg Lys Ala Glu Glu Gln Val
 180 185 190
 Gln Ala Thr Arg Gln Glu Val Val Phe Leu Ala Lys Glu Leu Ser Asp
 195 200 205
 Ala Val Asn Val Arg Asp Arg Thr Met Ala Asp Leu His Thr Ala Arg
 210 215 220
 Leu Glu Asn Glu Lys Val Lys Lys Gln Leu Ala Asp Ala Val Ala Glu
 225 230 235 240
 Leu Lys Leu Asn Ala Met Lys Lys Asp Gln Asp Lys Thr Asp Thr Leu
 245 250 255
 Glu His Glu Leu Arg Arg Glu Val Glu Asp Leu Lys Leu Arg Leu Gln
 260 265 270
 Met Ala Ala Asp His Tyr Lys Glu Lys Phe Lys Glu Cys Gln Arg Leu
 275 280 285
 Gln Lys Gln Ile Asn Lys Leu Ser Asp Gln Ser Ala Asn Asn Asn Asn
 290 295 300
 Val Phe Thr Lys Lys Thr Gly Asn Gln Gln Lys Val Asn Asp Ala Ser
 305 310 315 320

Val Asn Thr Asp Pro Ala Thr Ser Ala Ser Thr Val Asp Val Lys Pro
 325 330 335
 Ser Pro Ser Ala Ala Glu Ala Asp Phe Asp Ile Val Thr Lys Gly Gln
 340 345 350
 Val Cys Glu Met Thr Lys Glu Ile Ala Asp Lys Thr Glu Lys Tyr Asn
 355 360 365
 Lys Cys Lys Gln Leu Leu Gln Asp Glu Lys Ala Lys Cys Asn Lys Tyr
 370 375 380
 Ala Asp Glu Leu Ala Lys Met Glu Leu Lys Trp Lys Glu Gln Val Lys
 385 390 395 400
 Ile Ala Glu Asn Val Lys Leu Glu Leu Ala Glu Val Gln Asp Asn Tyr
 405 410 415
 Lys Glu Leu Lys Arg Ser Leu Glu Asn Pro Ala Glu Arg Lys Met Glu
 420 425 430
 Asp Gly Ala Asp Gly Ala Phe Tyr Pro Asp Glu Ile Gln Arg Pro Pro
 435 440 445
 Val Arg Val Pro Ser Trp Gly Leu Glu Asp Asn Val Val Cys Ser Gln
 450 455 460
 Pro Ala Arg Asn Phe Ser Arg Pro Asp Gly Leu Glu Asp Ser Glu Asp
 465 470 475 480
 Ser Lys Glu Asp Glu Asn Val Pro Thr Ala Pro Asp Pro Pro Ser Gln
 485 490 495
 His Leu Arg Gly His Gly Thr Gly Phe Cys Phe Asp Ser Ser Phe Asp
 500 505 510
 Val His Lys Lys Cys Pro Leu Cys Glu Leu Met Phe Pro Pro Asn Tyr
 515 520 525
 Asp Gln Ser Lys Phe Glu Glu His Val Glu Ser His Trp Lys Val Cys
 530 535 540
 Pro Met Cys Ser Glu Gln Phe Pro Pro Asp Tyr Asp Gln Gln Val Phe
 545 550 555 560
 Glu Arg His Val Gln Thr His Phe Asp Gln Asn Val Leu Asn Phe Asp
 565 570 575

<210> 788
 <211> 311
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (135)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (175)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 788
 Ala Ile Val Pro Ser Trp Asp Leu Asp Lys Asp Thr Ile Ser Leu Leu
 1 5 10 15

 Ser Pro Val Leu Cys Ile Phe Pro Ser Pro Ser Ser Gln Thr Ser Leu
 20 25 30

 Leu Tyr Val Phe Ser Leu Ala Gly Arg Met Thr Gln Asn Thr Val Ile
 35 40 45

 Val Asn Gly Val Ala Met Ala Ser Arg Pro Ser Gln Pro Thr His Val
 50 55 60

 Asn Val His Ile His Gln Glu Ser Ala Leu Thr Gln Leu Leu Lys Ala
 65 70 75 80

 Gly Gly Ser Leu Lys Lys Phe Leu Phe His Pro Gly Asp Thr Val Pro
 85 90 95

 Ser Thr Ala Arg Ile Gly Tyr Glu Gln Leu Ala Leu Gly Val Thr Gln
 100 105 110

 Ile Leu Leu Gly Val Val Ser Cys Val Leu Gly Val Cys Leu Ser Leu
 115 120 125

 Gly Pro Trp Thr Val Leu Xaa Ala Ser Gly Cys Ala Phe Trp Ala Gly
 130 135 140

 Ser Val Val Ile Ala Ala Gly Ala Gly Ala Ile Val His Glu Lys His
 145 150 155 160

 Pro Gly Lys Leu Ala Gly Tyr Ile Ser Ser Leu Leu Thr Leu Xaa Gly
 165 170 175

Phe Ala Thr Ala Met Ala Ala Val Val Leu Cys Val Asn Ser Phe Ile
 180 185 190
 Trp Gln Thr Glu Pro Phe Leu Tyr Ile Asp Thr Val Cys Asp Arg Ser
 195 200 205
 Asp Pro Val Phe Pro Thr Thr Gly Tyr Arg Trp Met Arg Arg Ser Gln
 210 215 220
 Glu Asn Gln Trp Gln Lys Glu Glu Cys Arg Ala Tyr Met Gln Met Leu
 225 230 235 240
 Arg Lys Leu Phe Thr Ala Ile Arg Ala Leu Phe Leu Ala Val Cys Val
 245 250 255
 Leu Lys Val Ile Val Ser Leu Val Ser Leu Gly Val Gly Leu Arg Asn
 260 265 270
 Leu Cys Gly Gln Ser Ser Gln Pro Leu Asn Glu Glu Gly Ser Glu Lys
 275 280 285
 Arg Leu Leu Gly Glu Asn Ser Val Pro Pro Ser Pro Ser Arg Glu Gln
 290 295 300
 Thr Ser Thr Ala Ile Val Leu
 305 310

<210> 789
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 789
 His Ser Lys Ser Phe Val Leu Phe Lys Ile Cys Phe Gly Asn Tyr His
 1 5 10 15
 Ile Phe Phe Ser Tyr Leu Pro Leu Asn Gly His Ser Val Tyr Cys Trp
 20 25 30
 Asn Val Pro Ser Lys Arg Cys Ser Phe Arg Ser Thr Val Ile Ala Pro
 35 40 45
 Gly Ser Met Arg Tyr Cys Leu Tyr Tyr Glu Val Gly Val Leu Ser Thr
 50 55 60
 Glu Ile Ile Leu Leu Asn Lys Tyr Val Cys Ser Val
 65 70 75

735

<210> 790
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 790
 Ala Ser Ser Ala Cys Leu Ala Ala Pro Ala Leu Ser Arg Leu Pro Gly
 1 5 10 15
 Leu Gly Gly Ala Gly Ala Arg Ser Arg Ser Cys Leu Gly Leu Arg Phe
 20 25 30
 Gln Ala Trp Gly Ser Leu Pro Ala Ala Arg Ser Arg Ala Val Leu Gly
 35 40 45
 Thr Leu Arg Ser Thr Glu Pro Ser Leu Thr Gln Glu Leu Ser Ala Asp
 50 55 60
 Ser Pro Pro Ser Gly Ser Glu Ala Thr Trp Met Gln Ser Ala Lys Ser
 65 70 75 80
 Pro Trp Lys Ser Cys Phe Pro Ser Thr Ser Trp Ile Ser Gly Leu Leu
 85 90 95
 Ser Ser Ser Ser Trp Pro Pro Leu Ser Ser
 100 105

<210> 791
 <211> 121
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (12)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 791
 Ser Glu Lys Ser Thr Glu His Pro Glu Lys Thr Xaa Ala Thr Thr Glu
 1 5 10 15
 Lys Thr Thr Arg Thr Pro Glu Lys Pro Thr Leu Tyr Ser Glu Lys Thr
 20 25 30
 Ile Cys Thr Lys Gly Lys Asn Thr Pro Val Pro Glu Lys Pro Thr Glu
 35 40 45
 Asn Leu Gly Asn Thr Thr Leu Thr Thr Glu Thr Ile Lys Ala Pro Val

50 55 60
 Lys Ser Thr Glu Asn Pro Glu Lys Thr Ala Ala Val Thr Lys Thr Ile
 65 70 75 80
 Lys Pro Ser Val Lys Val Thr Gly Asp Lys Ser Leu Thr Thr Thr Ser
 85 90 95
 Ser His Leu Asn Lys Thr Glu Val Thr His Gln Val Pro Thr Gly Ser
 100 105 110
 Phe Thr Leu Ile Thr Ser Arg Thr Ser
 115 120

<210> 792
 <211> 128
 <212> PRT
 <213> Homo sapiens

<400> 792
 Gln Thr Ala Thr Phe Gln Gly Ala Thr Thr Val Gly Gly Ser Lys Glu
 1 5 10 15
 Arg Lys Glu Lys Arg Arg Gln Arg Lys Gly Glu Glu Cys Ser Leu Pro
 20 25 30
 Gly Leu Thr Cys Phe Thr His Asp Asn Asn His Trp Gln Thr Ala Pro
 35 40 45
 Phe Trp Asn Leu Gly Ser Phe Cys Ala Cys Thr Ser Ser Asn Asn Asn
 50 55 60
 Thr Tyr Trp Cys Leu Arg Thr Val Asn Glu Thr His Asn Phe Leu Phe
 65 70 75 80
 Cys Glu Phe Ala Thr Gly Phe Leu Glu Tyr Phe Asp Met Asn Thr Asp
 85 90 95
 Pro Tyr Gln Leu Thr Asn Thr Val His Thr Val Glu Arg Gly Ile Leu
 100 105 110
 Asn Gln Leu His Val Gln Leu Met Gly Ala Gln Lys Leu Ser Arg Val
 115 120 125

<210> 793
 <211> 190
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 793
 Asp Pro Xaa Val Arg Ser Gln Lys Lys Lys Lys Lys Met Ser Ser Trp
 1 5 10 15
 Pro Tyr Phe Gln Pro Phe Asp Ser Leu Ser Thr Ser Leu Val Leu Val
 20 25 30
 Cys Leu Cys Gln Arg His Val Arg His Leu Gln Arg Asp Ala Leu Ser
 35 40 45
 Gln Leu Met Asn Gly Pro Ile Arg Lys Lys Leu Lys Ile Ile Pro Glu
 50 55 60
 Asp Gln Ser Trp Gly Gly Gln Ala Thr Asn Val Phe Val Asn Met Glu
 65 70 75 80
 Glu Asp Phe Met Lys Pro Val Ile Ser Ile Val Asp Glu Leu Leu Glu
 85 90 95
 Ala Gly Ile Asn Val Thr Val Tyr Asn Gly Gln Leu Asp Leu Ile Val
 100 105 110
 Asp Thr Met Gly Gln Glu Ala Trp Val Arg Lys Leu Lys Trp Pro Glu
 115 120 125
 Leu Pro Lys Phe Ser Gln Leu Lys Trp Lys Ala Leu Tyr Ser Asp Pro
 130 135 140
 Lys Ser Leu Glu Thr Ser Ala Phe Val Lys Ser Tyr Lys Asn Leu Ala
 145 150 155 160
 Phe Tyr Trp Ile Leu Lys Ala Gly His Met Val Pro Ser Asp Gln Gly
 165 170 175
 Asp Met Ala Leu Lys Met Met Arg Leu Val Thr Gln Gln Glu
 180 185 190

<210> 794
 <211> 260

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 794

Asn His Ser Cys Trp Gln Gly Pro Gln Leu Met Pro Ala Ser Ser Pro
1 5 10 15

Phe Leu Leu Ala Pro Lys Gly Pro Pro Gly Asn Met Gly Gly Pro Val
20 25 30

Arg Glu Pro Ala Leu Ser Val Ala Leu Trp Leu Ser Trp Gly Ala Ala
35 40 45

Leu Gly Ala Val Ala Cys Ala Met Ala Leu Leu Thr Gln Gln Thr Glu
50 55 60

Leu Gln Ser Leu Arg Arg Glu Val Ser Arg Leu Gln Gly Thr Gly Gly
65 70 75 80

Pro Ser Gln Asn Gly Glu Gly Tyr Pro Trp Gln Ser Leu Pro Glu Gln
85 90 95

Ser Ser Asp Ala Leu Glu Ala Trp Glu Xaa Gly Glu Arg Ser Arg Lys
100 105 110

Arg Arg Ala Val Leu Thr Gln Lys Gln Lys Lys Gln His Ser Val Leu
115 120 125

His Leu Val Pro Ile Asn Ala Thr Ser Lys Asp Asp Ser Asp Val Thr
130 135 140

Glu Val Met Trp Gln Pro Ala Leu Arg Arg Gly Arg Gly Leu Gln Ala
145 150 155 160

Gln Gly Tyr Gly Val Arg Ile Gln Asp Ala Gly Val Tyr Leu Leu Tyr
165 170 175

Ser Gln Val Leu Phe Gln Asp Val Thr Phe Thr Met Gly Gln Val Val
180 185 190

Ser Arg Glu Gly Gln Gly Arg Gln Glu Thr Leu Phe Arg Cys Ile Arg
195 200 205

Ser Met Pro Ser His Pro Asp Arg Ala Tyr Asn Ser Cys Tyr Ser Ala
210 215 220

Gly Val Phe His Leu His Gln Gly Asp Ile Leu Ser Val Ile Ile Pro
 225 230 235 240

Arg Ala Arg Ala Lys Leu Asn Leu Ser Pro His Gly Thr Phe Leu Gly
 245 250 255

Phe Val Lys Leu
 260

<210> 795

<211> 310

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 795

Gly Thr Arg Leu Arg Val Ala Leu Glu Ala Gln Ser Pro Arg Arg Arg
 1 5 10 15

Ala Gly Trp Cys Ser Cys Ala Gly Gly Val Leu Arg Leu Gly Val Val
 20 25 30

Thr Gly Ser Arg Met Ala Ser Asp Ser Gly Asn Gln Gly Thr Leu Cys
 35 40 45

Thr Leu Glu Phe Ala Val Gln Met Thr Cys Gln Ser Cys Val Asp Ala
 50 55 60

Val Arg Lys Ser Leu Gln Gly Xaa Ala Gly Val Gln Asp Val Glu Val
 65 70 75 80

His Leu Glu Asp Gln Met Val Leu Val His Thr Thr Leu Pro Ser Gln
 85 90 95

Glu Val Gln Ala Leu Leu Glu Gly Thr Gly Arg Gln Ala Val Leu Lys
 100 105 110

Gly Met Gly Ser Gly Gln Leu Gln Asn Leu Gly Ala Ala Val Ala Ile
 115 120 125

Leu Gly Gly Pro Gly Thr Val Gln Gly Val Val Arg Phe Leu Gln Leu
 130 135 140

Thr Pro Glu Arg Cys Leu Ile Glu Gly Thr Ile Asp Gly Leu Glu Pro
 145 150 155 160

740

Gly Leu His Gly Leu His Val His Gln Tyr Gly Asp Leu Thr Asn Asn
 165 170 175
 Cys Asn Ser Cys Gly Asn His Phe Asn Pro Asp Gly Ala Ser His Gly
 180 185 190
 Gly Pro Gln Asp Ser Asp Arg His Arg Gly Asp Leu Gly Asn Val Arg
 195 200 205
 Ala Asp Ala Asp Gly Arg Ala Ile Phe Arg Met Glu Asp Glu Gln Leu
 210 215 220
 Lys Val Trp Asp Val Ile Gly Arg Ser Leu Ile Ile Asp Glu Gly Glu
 225 230 235 240
 Asp Asp Leu Gly Arg Gly Gly His Pro Leu Ser Lys Ile Thr Gly Asn
 245 250 255
 Ser Gly Glu Arg Leu Ala Cys Gly Ile Ile Ala Arg Ser Ala Gly Leu
 260 265 270
 Phe Gln Asn Pro Lys Gln Ile Cys Ser Cys Asp Gly Leu Thr Ile Trp
 275 280 285
 Glu Glu Arg Gly Arg Pro Ile Ala Gly Lys Gly Arg Lys Glu Ser Ala
 290 295 300
 Gln Pro Pro Ala His Leu
 305 310

<210> 796

<211> 465

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 796

Ala Gly Glu Lys Leu Leu Lys Asp Cys Val Leu Leu His Leu Pro Cys
 1 5 10 15

Ala Arg Ser Pro Pro Val Ser His Ser Val Thr Met Val Gln Trp Lys
 20 25 30

Arg Leu Cys Gln Leu His Tyr Leu Trp Ala Leu Gly Cys Tyr Met Leu

741

35	40	45
Leu Ala Thr Val Ala Leu Lys Leu Ser Phe Xaa Leu Lys Cys Asp Ser		
50	55	60
Asp His Leu Gly Leu Glu Ser Arg Glu Ser Gln Ser Gln Tyr Cys Arg		
65	70	75 80
Asn Ile Leu Tyr Asn Phe Leu Lys Leu Pro Ala Lys Arg Ser Ile Asn		
	85	90 95
Cys Ser Gly Val Thr Arg Gly Asp Gln Glu Ala Val Leu Gln Ala Ile		
	100	105 110
Leu Asn Asn Leu Glu Val Lys Lys Lys Arg Glu Pro Phe Thr Asp Thr		
	115	120 125
His Tyr Leu Ser Leu Thr Arg Asp Cys Glu His Phe Lys Ala Glu Arg		
	130	135 140
Lys Phe Ile Gln Phe Pro Leu Ser Lys Glu Glu Val Glu Phe Pro Ile		
	145	150 155 160
Ala Tyr Ser Met Val Ile His Glu Lys Ile Glu Asn Phe Glu Arg Leu		
	165	170 175
Leu Arg Ala Val Tyr Ala Pro Gln Asn Ile Tyr Cys Val His Val Asp		
	180	185 190
Glu Lys Ser Pro Glu Thr Phe Lys Glu Ala Val Lys Ala Ile Ile Ser		
	195	200 205
Cys Phe Pro Asn Val Phe Ile Ala Ser Lys Leu Val Arg Val Val Tyr		
	210	215 220
Ala Ser Trp Ser Arg Val Gln Ala Asp Leu Asn Cys Met Glu Asp Leu		
	225	230 235 240
Leu Gln Ser Ser Val Pro Trp Lys Tyr Phe Leu Asn Thr Cys Gly Thr		
	245	250 255
Asp Phe Pro Ile Lys Ser Asn Ala Glu Met Val Gln Ala Leu Lys Met		
	260	265 270
Leu Asn Gly Arg Asn Ser Met Glu Ser Glu Val Pro Pro Lys His Lys		
	275	280 285
Glu Thr Arg Trp Lys Tyr His Phe Glu Val Val Arg Asp Thr Leu His		
	290	295 300
Leu Thr Asn Lys Lys Lys Asp Pro Pro Pro Tyr Asn Leu Thr Met Phe		

742

305 310 315 320
 Thr Gly Asn Ala Tyr Ile Val Ala Ser Arg Asp Phe Val Gln His Val
 325 330 335
 Leu Lys Asn Pro Lys Ser Gln Gln Leu Ile Glu Trp Val Lys Asp Thr
 340 345 350
 Tyr Ser Pro Asp Glu His Leu Trp Ala Thr Leu Gln Arg Ala Arg Trp
 355 360 365
 Met Pro Gly Ser Val Pro Asn His Pro Lys Tyr Asp Ile Ser Asp Met
 370 375 380
 Thr Ser Ile Ala Arg Leu Val Lys Trp Gln Gly His Glu Gly Asp Ile
 385 390 395 400
 Asp Lys Gly Ala Pro Tyr Ala Pro Cys Ser Gly Ile His Gln Arg Ala
 405 410 415
 Ile Cys Val Tyr Gly Ala Gly Asp Leu Asn Trp Met Leu Gln Asn His
 420 425 430
 His Leu Leu Ala Asn Lys Phe Asp Pro Lys Val Asp Asp Asn Ala Leu
 435 440 445
 Gln Cys Leu Glu Glu Tyr Leu Arg Tyr Lys Ala Ile Tyr Gly Thr Glu
 450 455 460
 Leu
 465

<210> 797

<211> 977

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (762)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 797

Gly Ser Leu Ser Arg Leu Pro Thr Ile Thr Met Ala Lys Gly Phe Tyr

743

1	5	10	15
Ile Ser Lys Ser Leu Gly Ile Leu Gly Ile Leu Leu Gly Val Ala Ala	20	25	30
Val Cys Thr Ile Ile Ala Leu Ser Val Val Tyr Ser Gln Glu Lys Asn	35	40	45
Lys Asn Ala Asn Ser Ser Pro Val Ala Ser Thr Thr Pro Ser Ala Ser	50	55	60
Ala Thr Thr Asn Pro Ala Ser Xaa Thr Thr Leu Asp Gln Ser Lys Ala	65	70	75
Trp Asn Arg Tyr Arg Leu Pro Asn Thr Leu Lys Pro Asp Ser Tyr Arg	85	90	95
Val Thr Leu Arg Pro Tyr Leu Thr Pro Asn Asp Arg Gly Leu Tyr Val	100	105	110
Phe Lys Gly Ser Ser Thr Val Arg Phe Thr Cys Lys Glu Ala Thr Asp	115	120	125
Val Ile Ile Ile His Ser Lys Lys Leu Asn Tyr Thr Leu Ser Gln Gly	130	135	140
His Arg Val Val Leu Arg Gly Val Gly Gly Ser Gln Pro Pro Asp Ile	145	150	155
Asp Lys Thr Glu Leu Val Glu Pro Thr Glu Tyr Leu Val Val His Leu	165	170	175
Lys Gly Ser Leu Val Lys Asp Ser Gln Tyr Glu Met Asp Ser Glu Phe	180	185	190
Glu Gly Glu Leu Ala Asp Asp Leu Ala Gly Phe Tyr Arg Ser Glu Tyr	195	200	205
Met Glu Gly Asn Val Arg Lys Val Val Ala Thr Thr Gln Met Gln Ala	210	215	220
Ala Asp Ala Arg Lys Ser Phe Pro Cys Phe Asp Glu Pro Ala Met Lys	225	230	235
Ala Glu Phe Asn Ile Thr Leu Ile His Pro Lys Asp Leu Thr Ala Leu	245	250	255
Ser Asn Met Leu Pro Lys Gly Pro Ser Thr Pro Leu Pro Glu Asp Pro	260	265	270
Asn Trp Asn Val Thr Glu Phe His Thr Thr Pro Lys Met Ser Thr Tyr			

275	280	285
Leu Leu Ala Phe Ile Val Ser Glu Phe Asp Tyr Val Glu Lys Gln Ala		
290	295	300
Ser Asn Gly Val Leu Ile Arg Ile Trp Ala Arg Pro Ser Ala Ile Ala		
305	310	315 320
Ala Gly His Gly Asp Tyr Ala Leu Asn Val Thr Gly Pro Ile Leu Asn		
	325	330 335
Phe Phe Ala Gly His Tyr Asp Thr Pro Tyr Pro Leu Pro Lys Ser Asp		
	340	345 350
Gln Ile Gly Leu Pro Asp Phe Asn Ala Gly Ala Met Glu Asn Trp Gly		
	355	360 365
Leu Val Thr Tyr Arg Glu Asn Ser Leu Leu Phe Asp Pro Leu Ser Ser		
	370	375 380
Ser Ser Ser Asn Lys Glu Arg Val Val Thr Val Ile Ala His Glu Leu		
385	390	395 400
Ala His Gln Trp Phe Gly Asn Leu Val Thr Ile Glu Trp Trp Asn Asp		
	405	410 415
Leu Trp Leu Asn Glu Gly Phe Ala Ser Tyr Val Glu Tyr Leu Gly Ala		
	420	425 430
Asp Tyr Ala Glu Pro Thr Trp Asn Leu Lys Asp Leu Met Val Leu Asn		
	435	440 445
Asp Val Tyr Arg Val Met Ala Val Asp Ala Leu Ala Ser Ser His Pro		
	450	455 460
Leu Ser Thr Pro Ala Ser Glu Ile Asn Thr Pro Ala Gln Ile Ser Glu		
465	470	475 480
Leu Phe Asp Ala Ile Ser Tyr Ser Lys Gly Ala Ser Val Leu Arg Met		
	485	490 495
Leu Ser Ser Phe Leu Ser Glu Asp Val Phe Lys Gln Gly Leu Ala Ser		
	500	505 510
Tyr Leu His Thr Phe Ala Tyr Gln Asn Thr Ile Tyr Leu Asn Leu Trp		
	515	520 525
Asp His Leu Gln Glu Ala Val Asn Asn Arg Ser Ile Gln Leu Pro Thr		
530	535	540
Thr Val Arg Asp Ile Met Asn Arg Trp Thr Leu Gln Met Gly Phe Pro		

745

545		550		555		560
Val Ile Thr Val Asp Thr Ser Thr Gly Thr Leu Ser Gln Glu His Phe						
	565			570		575
Leu Leu Asp Pro Asp Ser Asn Val Thr Arg Pro Ser Glu Phe Asn Tyr						
	580			585		590
Val Trp Ile Val Pro Ile Thr Ser Ile Arg Asp Gly Arg Gln Gln Gln						
	595			600		605
Asp Tyr Trp Leu Ile Asp Val Arg Ala Gln Asn Asp Leu Phe Ser Thr						
	610			615		620
Ser Gly Asn Glu Trp Val Leu Leu Asn Leu Asn Val Thr Gly Tyr Tyr						
	625			630		635
Arg Val Asn Tyr Asp Glu Glu Asn Trp Arg Lys Ile Gln Thr Gln Leu						
	645			650		655
Gln Arg Asp His Ser Ala Ile Pro Val Ile Asn Arg Ala Gln Ile Ile						
	660			665		670
Asn Asp Ala Phe Asn Leu Ala Ser Ala His Lys Val Pro Val Thr Leu						
	675			680		685
Ala Leu Asn Asn Thr Leu Phe Leu Ile Glu Glu Arg Gln Tyr Met Pro						
	690			695		700
Trp Glu Ala Ala Leu Ser Ser Leu Ser Tyr Phe Lys Leu Met Phe Asp						
	705			710		715
Arg Ser Glu Val Tyr Gly Pro Met Lys Asn Tyr Leu Lys Lys Gln Val						
	725			730		735
Thr Pro Leu Phe Ile His Phe Arg Asn Asn Thr Asn Asn Trp Arg Glu						
	740			745		750
Ile Pro Glu Asn Leu Met Asp Gln Tyr Xaa Glu Val Asn Ala Ile Ser						
	755			760		765
Thr Ala Cys Ser Asn Gly Val Pro Glu Cys Glu Glu Met Val Ser Gly						
	770			775		780
Leu Phe Lys Gln Trp Met Glu Asn Pro Asn Asn Asn Pro Ile His Pro						
	785			790		795
Asn Leu Arg Ser Thr Val Tyr Cys Asn Ala Ile Ala Gln Gly Gly Glu						
	805			810		815
Glu Glu Trp Asp Phe Ala Trp Glu Gln Phe Arg Asn Ala Thr Leu Val						

820					825					830									
Asn	Glu	Ala	Asp	Lys	Leu	Arg	Ala	Ala	Leu	Ala	Cys	Ser	Lys	Glu	Leu				
835					840					845									
Trp	Ile	Leu	Asn	Arg	Tyr	Leu	Ser	Tyr	Thr	Leu	Asn	Pro	Asp	Leu	Ile				
850					855					860									
Arg	Lys	Gln	Asp	Ala	Thr	Ser	Thr	Ile	Ile	Ser	Ile	Thr	Asn	Asn	Val				
865					870					875					880				
Ile	Gly	Gln	Gly	Leu	Val	Trp	Asp	Phe	Val	Gln	Ser	Asn	Trp	Lys	Lys				
885					890					895									
Leu	Phe	Asn	Asp	Tyr	Gly	Gly	Gly	Ser	Phe	Ser	Phe	Ser	Asn	Leu	Ile				
900					905					910									
Gln	Ala	Val	Thr	Arg	Arg	Phe	Ser	Thr	Glu	Tyr	Glu	Leu	Gln	Gln	Leu				
915					920					925									
Glu	Gln	Phe	Lys	Lys	Asp	Asn	Glu	Glu	Thr	Gly	Phe	Gly	Ser	Gly	Thr				
930					935					940									
Arg	Ala	Leu	Glu	Gln	Ala	Leu	Glu	Lys	Thr	Lys	Ala	Asn	Ile	Lys	Trp				
945					950					955					960				
Val	Lys	Glu	Asn	Lys	Glu	Val	Val	Leu	Gln	Trp	Phe	Thr	Glu	Asn	Ser				
965					970					975									

Lys

<210> 798

<211> 851

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (267)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 798

Pro Ala Ala Asn Ser Gln Xaa Ala Ala Arg Pro Val Ala Ser Pro Arg

1	5	10	15
Gly Ala Tyr Lys Ala Ser Ala Thr Pro Arg Ala Pro Ala Ala Pro Tyr	20	25	30
Leu His Arg Arg Pro His Ser Ala Ala Leu Arg Ala Ala Pro Ala Ala	35	40	45
Gly Arg Ala Pro Cys Pro Pro Ala Pro Ala Arg Asn Arg Arg Leu Arg	50	55	60
Ala Asp Pro Gly Leu Cys Val Leu Ala Arg Ser Ala Ala Leu Arg Gly	65	70	75
Arg Gly Arg Leu Ser Pro Arg Gly Pro Arg Gly Pro Asn Met Gly Gly	85	90	95
Cys Thr Val Lys Pro Gln Leu Leu Leu Leu Ala Leu Val Leu His Pro	100	105	110
Trp Asn Pro Cys Leu Gly Ala Asp Ser Glu Lys Pro Ser Ser Ile Pro	115	120	125
Thr Asp Lys Leu Leu Val Ile Thr Val Ala Thr Lys Glu Ser Asp Gly	130	135	140
Phe His Arg Phe Met Gln Ser Ala Lys Tyr Phe Asn Tyr Thr Val Lys	145	150	155
Val Leu Gly Gln Gly Glu Glu Trp Arg Gly Gly Asp Gly Ile Asn Ser	165	170	175
Ile Gly Gly Gly Gln Lys Val Arg Leu Met Lys Glu Val Met Glu His	180	185	190
Tyr Ala Asp Gln Asp Asp Leu Val Val Met Phe Thr Glu Cys Phe Asp	195	200	205
Val Ile Phe Ala Gly Gly Pro Glu Glu Val Leu Lys Lys Phe Gln Lys	210	215	220
Ala Asn His Lys Val Val Phe Ala Ala Asp Gly Ile Leu Trp Pro Asp	225	230	235
Lys Arg Leu Ala Asp Lys Tyr Pro Val Val His Ile Gly Lys Arg Tyr	245	250	255
Leu Asn Ser Gly Gly Phe Ile Gly Tyr Ala Xaa Tyr Val Asn Arg Ile	260	265	270
Val Gln Gln Trp Asn Leu Gln Asp Asn Asp Asp Asp Gln Leu Phe Tyr			

275	280	285
Thr Lys Val Tyr Ile Asp Pro Leu Lys Arg Glu Ala Ile Asn Ile Thr		
290	295	300
Leu Asp His Lys Cys Lys Ile Phe Gln Thr Leu Asn Gly Ala Val Asp		
305	310	315
Glu Val Val Leu Lys Phe Glu Asn Gly Lys Ala Arg Ala Lys Asn Thr		
325	330	335
Phe Tyr Glu Thr Leu Pro Val Ala Ile Asn Gly Asn Gly Pro Thr Lys		
340	345	350
Ile Leu Leu Asn Tyr Phe Gly Asn Tyr Val Pro Asn Ser Trp Thr Gln		
355	360	365
Asp Asn Gly Cys Thr Leu Cys Glu Phe Asp Thr Val Asp Leu Ser Ala		
370	375	380
Val Asp Val His Pro Asn Val Ser Ile Gly Val Phe Ile Glu Gln Pro		
385	390	395
Thr Pro Phe Leu Pro Arg Phe Leu Asp Ile Leu Leu Thr Leu Asp Tyr		
405	410	415
Pro Lys Glu Ala Leu Lys Leu Phe Ile His Asn Lys Glu Val Tyr His		
420	425	430
Glu Lys Asp Ile Lys Val Phe Phe Asp Lys Ala Lys His Glu Ile Lys		
435	440	445
Thr Ile Lys Ile Val Gly Pro Glu Glu Asn Leu Ser Gln Ala Glu Ala		
450	455	460
Arg Asn Met Gly Met Asp Phe Cys Arg Gln Asp Glu Lys Cys Asp Tyr		
465	470	475
Tyr Phe Ser Val Asp Ala Asp Val Val Leu Thr Asn Pro Arg Thr Leu		
485	490	495
Lys Ile Leu Ile Glu Gln Asn Arg Lys Ile Ile Ala Pro Leu Val Thr		
500	505	510
Arg His Gly Lys Leu Trp Ser Asn Phe Trp Gly Ala Leu Ser Pro Asp		
515	520	525
Gly Tyr Tyr Ala Arg Ser Glu Asp Tyr Val Asp Ile Val Gln Gly Asn		
530	535	540
Arg Val Gly Val Trp Asn Val Pro Tyr Met Ala Asn Val Tyr Leu Ile		

545 550 555 560
 Lys Gly Lys Thr Leu Arg Ser Glu Met Asn Glu Arg Asn Tyr Phe Val
 565 570 575
 Arg Asp Lys Leu Asp Pro Asp Met Ala Leu Cys Arg Asn Ala Arg Glu
 580 585 590
 Met Thr Leu Gln Arg Glu Lys Asp Ser Pro Thr Pro Glu Thr Phe Gln
 595 600 605
 Met Leu Ser Pro Pro Lys Gly Val Phe Met Tyr Ile Ser Asn Arg His
 610 615 620
 Glu Phe Gly Arg Leu Leu Ser Thr Ala Asn Tyr Asn Thr Ser His Tyr
 625 630 635 640
 Asn Asn Asp Leu Trp Gln Ile Phe Glu Asn Pro Val Asp Trp Lys Glu
 645 650 655
 Lys Tyr Ile Asn Arg Asp Tyr Ser Lys Ile Phe Thr Glu Asn Ile Val
 660 665 670
 Glu Gln Pro Cys Pro Asp Val Phe Trp Phe Pro Ile Phe Ser Glu Lys
 675 680 685
 Ala Cys Asp Glu Leu Val Glu Glu Met Glu His Tyr Gly Lys Trp Ser
 690 695 700
 Gly Gly Lys His His Asp Ser Arg Ile Ser Gly Gly Tyr Glu Asn Val
 705 710 715 720
 Pro Thr Asp Asp Ile His Met Lys Gln Val Asp Leu Glu Asn Val Trp
 725 730 735
 Leu His Phe Ile Arg Glu Phe Ile Ala Pro Val Thr Leu Lys Val Phe
 740 745 750
 Ala Gly Tyr Tyr Thr Lys Gly Phe Ala Leu Leu Asn Phe Val Val Lys
 755 760 765
 Tyr Ser Pro Glu Arg Gln Arg Ser Leu Arg Pro His His Asp Ala Ser
 770 775 780
 Thr Phe Thr Ile Asn Ile Ala Leu Asn Asn Val Gly Glu Asp Phe Gln
 785 790 795 800
 Gly Gly Gly Cys Lys Phe Leu Arg Tyr Asn Cys Ser Ile Glu Ser Pro
 805 810 815
 Arg Lys Gly Trp Ser Phe Met His Pro Gly Arg Leu Thr His Leu His

750

820 825 830
 Glu Gly Leu Pro Val Lys Asn Gly Thr Arg Tyr Ile Ala Val Ser Phe
 835 840 845

Ile Asp Pro
 850

<210> 799

<211> 138

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (126)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 799

Phe Ala Pro Pro Phe Gly Phe Met Glu Leu Asn Tyr Ser Leu Val Gln
 1 5 10 15

Lys Val Val Thr Arg Phe Pro Pro Val Pro Gln Gln Gln Leu Leu Leu
 20 25 30

Ala Ser Leu Pro Ala Gly Ser Leu Arg Cys Ile Thr Cys Ala Val Val
 35 40 45

Gly Asn Gly Gly Ile Leu Asn Asn Ser His Met Gly Gln Glu Ile Asp
 50 55 60

Ser His Asp Tyr Val Phe Arg Leu Ser Gly Ala Leu Ile Lys Gly Tyr
 65 70 75 80

Glu Gln Asp Val Gly Thr Arg Thr Ser Phe Tyr Gly Phe Thr Ala Phe
 85 90 95

Ser Leu Thr Gln Ser Leu Leu Ile Leu Gly Asn Arg Gly Phe Lys Asn
 100 105 110

Val Pro Leu Gly Lys Asp Val Arg Tyr Leu Asp Phe Leu Xaa Ala Pro
 115 120 125

Gly Asn Met Lys Trp Leu Glu His Cys Leu
 130 135

<210> 800

751

<211> 585

<212> PRT

<213> Homo sapiens

<400> 800

Leu Pro Leu Cys Leu Leu Met Ala Gln Gln Arg Asn Gly Val Ile Phe
 1 5 10 15

Gln Glu Gly Gly Glu Lys His Leu Lys Leu Val Gly Lys Leu Tyr Asp
 20 25 30

Gln Cys His Asp Thr Leu Val Gln Phe Gly Gly Phe Leu Ala Ser Asn
 35 40 45

Leu Ser Thr Glu Asp Tyr Ile Lys Arg Val Pro Ser Ile Asp Val Leu
 50 55 60

Cys Asn Glu Phe His Thr Pro His Asp Ala Ala Phe Phe Leu Ser Arg
 65 70 75 80

Pro Met Tyr Ala His His Ile Ser Ser Lys Tyr Asp Glu Leu Lys Lys
 85 90 95

Ser Glu Lys Gly Ser Lys Gln Gln His Lys Val His Lys Tyr Ile Thr
 100 105 110

Ser Cys Glu Met Val Met Ala Pro Val His Glu Ala Val Val Ser Leu
 115 120 125

His Val Ser Lys Val Trp Asp Asp Ile Ser Pro Gln Phe Tyr Ala Thr
 130 135 140

Phe Trp Ser Leu Thr Met Tyr Asp Leu Ala Val Pro His Thr Ser Tyr
 145 150 155 160

Glu Arg Glu Val Asn Lys Leu Lys Val Gln Met Lys Ala Ile Asp Asp
 165 170 175

Asn Gln Glu Met Pro Pro Asn Lys Lys Lys Lys Glu Lys Glu Arg Cys
 180 185 190

Thr Ala Leu Gln Asp Lys Leu Leu Glu Glu Glu Lys Lys Gln Met Glu
 195 200 205

His Val Gln Arg Val Leu Gln Arg Leu Lys Leu Glu Lys Asp Asn Trp
 210 215 220

Leu Leu Ala Lys Ser Thr Lys Asn Glu Thr Ile Thr Lys Phe Leu Gln
 225 230 235 240

Leu Cys Ile Phe Pro Arg Cys Ile Phe Ser Ala Ile Asp Ala Val Tyr

752

	245		250		255										
Cys	Ala	Arg	Phe	Val	Glu	Leu	Val	His	Gln	Gln	Lys	Thr	Pro	Asn	Phe
	260							265						270	
Ser	Thr	Leu	Leu	Cys	Tyr	Asp	Arg	Val	Phe	Ser	Asp	Ile	Ile	Tyr	Thr
	275						280					285			
Val	Ala	Ser	Cys	Thr	Glu	Asn	Glu	Ala	Ser	Arg	Tyr	Gly	Arg	Phe	Leu
	290					295					300				
Cys	Cys	Met	Leu	Glu	Thr	Val	Thr	Arg	Trp	His	Ser	Asp	Arg	Ala	Thr
305					310					315					320
Tyr	Glu	Lys	Glu	Cys	Gly	Asn	Tyr	Pro	Gly	Phe	Leu	Thr	Ile	Leu	Arg
				325					330					335	
Ala	Thr	Gly	Phe	Asp	Gly	Gly	Asn	Lys	Ala	Asp	Gln	Leu	Asp	Tyr	Glu
			340					345					350		
Asn	Phe	Arg	His	Val	Val	His	Lys	Trp	His	Tyr	Lys	Leu	Thr	Lys	Ala
	355						360					365			
Ser	Val	His	Cys	Leu	Glu	Thr	Gly	Glu	Tyr	Thr	His	Ile	Arg	Asn	Ile
	370					375					380				
Leu	Ile	Val	Leu	Thr	Lys	Ile	Leu	Pro	Trp	Tyr	Pro	Lys	Val	Leu	Asn
385					390					395				400	
Leu	Gly	Gln	Ala	Leu	Glu	Arg	Arg	Val	His	Lys	Ile	Cys	Gln	Glu	Glu
			405					410					415		
Lys	Glu	Lys	Arg	Pro	Asp	Leu	Tyr	Ala	Leu	Ala	Met	Gly	Tyr	Ser	Gly
			420					425				430			
Gln	Leu	Lys	Ser	Arg	Lys	Ser	Tyr	Met	Ile	Pro	Glu	Asn	Glu	Phe	His
	435						440					445			
His	Lys	Asp	Pro	Pro	Pro	Arg	Asn	Ala	Val	Ala	Ser	Val	Gln	Asn	Gly
	450					455					460				
Pro	Gly	Gly	Gly	Pro	Ser	Ser	Ser	Ser	Ile	Gly	Ser	Ala	Ser	Lys	Ser
465				470					475					480	
Asp	Glu	Ser	Ser	Thr	Glu	Glu	Thr	Asp	Lys	Ser	Arg	Glu	Arg	Ser	Gln
				485				490						495	
Cys	Gly	Val	Lys	Ala	Val	Asn	Lys	Ala	Ser	Ser	Thr	Thr	Pro	Lys	Gly
	500						505					510			
Asn	Ser	Ser	Asn	Gly	Asn	Ser	Gly	Ser	Asn	Ser	Asn	Lys	Ala	Val	Lys

515	520	525
Glu Asn Asp Lys Glu Lys Gly Lys Glu Lys Glu Lys Glu Lys Lys Glu		
530	535	540
Lys Thr Pro Ala Thr Thr Pro Glu Ala Arg Val Leu Gly Lys Asp Gly		
545	550	555 560
Lys Glu Lys Pro Lys Glu Glu Arg Pro Asn Lys Asp Glu Lys Ala Arg		
565	570	575
Glu Thr Lys Val Lys Asn Ala Glu Val		
580	585	

<210> 801

<211> 161

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 801

Leu Ala Xaa Leu Trp Gly Asp Gly Ser Ile Met Ala Ser Met Gln Lys
1 5 10 15

Arg Leu Gln Lys Glu Leu Leu Ala Leu Gln Asn Asp Pro Pro Pro Gly
20 25 30

Met Thr Leu Asn Glu Lys Ser Val Gln Asn Ser Ile Thr Gln Trp Ile
35 40 45

Val Asp Met Glu Gly Ala Pro Gly Thr Leu Tyr Glu Gly Glu Lys Phe
50 55 60

Gln Leu Leu Phe Lys Phe Ser Ser Arg Tyr Pro Phe Asp Ser Pro Gln
65 70 75 80

Val Met Phe Thr Gly Glu Asn Ile Pro Val His Pro His Val Tyr Ser
85 90 95

Asn Gly His Ile Cys Leu Ser Ile Leu Thr Glu Asp Trp Ser Pro Ala
100 105 110

Leu Ser Val Gln Ser Val Cys Leu Ser Ile Ile Ser Met Leu Ser Ser
115 120 125

Cys Lys Glu Lys Arg Arg Pro Pro Asp Asn Ser Phe Tyr Val Arg Thr
 130 135 140

Cys Asn Lys Asn Pro Lys Lys Thr Lys Trp Trp Tyr His Asp Asp Thr
 145 150 155 160

Cys

<210> 802

<211> 298

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (216)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 802

Arg Lys Arg Ser Leu Pro Asn Lys Gly Arg Arg Arg Pro Arg Arg Gln
 1 5 10 15

Ser Xaa Val Gln Arg Lys Lys Arg Glu Glu Glu Glu Glu Gly Gly
 20 25 30

Glu Ser Lys Ala Asp Asp Pro Tyr Ala His Leu Ser Lys Lys Glu Lys
 35 40 45

Lys Lys Leu Lys Lys Gln Met Glu Tyr Glu Arg Gln Val Ala Ser Leu
 50 55 60

Lys Ala Ala Asn Ala Ala Glu Asn Asp Phe Ser Val Ser Gln Ala Glu
 65 70 75 80

Met Ser Ser Arg Gln Ala Met Leu Glu Asn Ala Ser Asp Ile Lys Leu
 85 90 95

Glu Lys Phe Ser Ile Ser Ala His Gly Lys Glu Leu Phe Val Asn Ala
 100 105 110

Asp Leu Tyr Ile Val Ala Gly Arg Arg Tyr Gly Leu Val Gly Pro Asn
 115 120 125

755

Gly Lys Gly Lys Thr Thr Leu Leu Lys His Ile Ala Asn Arg Ala Leu
130 135 140

Ser Ile Pro Pro Asn Ile Asp Val Leu Leu Cys Glu Gln Glu Val Val
145 150 155 160

Ala Asp Glu Thr Pro Ala Val Gln Ala Val Leu Arg Ala Asp Thr Lys
165 170 175

Arg Leu Lys Leu Leu Glu Glu Glu Arg Arg Leu Gln Gly Gln Leu Glu
180 185 190

Gln Gly Asp Asp Thr Ala Ala Glu Arg Leu Glu Lys Val Tyr Glu Glu
195 200 205

Leu Arg Ala Thr Gly Ala Ala Xaa Ala Glu Ala Lys Ala Arg Arg Ile
210 215 220

Leu Ala Gly Leu Gly Phe Asp Pro Glu Met Gln Asn Arg Pro Thr Gln
225 230 235 240

Lys Phe Ser Gly Gly Trp Arg Met Arg Val Ser Leu Ala Arg Ala Leu
245 250 255

Phe Met Glu Pro Thr Leu Leu Met Leu Asp Glu Pro Thr Asn His Leu
260 265 270

Asp Leu Asn Ala Val Ile Trp Leu Asn Lys Cys Val Thr Ala Phe Ala
275 280 285

Ser Leu Val Pro Ile Leu His Phe Leu Pro
290 295

<210> 803

<211> 281

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (225)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 803

756

Gly Ala Xaa Gln Tyr Arg Gln His Ile Gln Val Phe Ile Asp Arg Phe
 1 5 10 15
 Arg Tyr Asn Ala Asn Arg Ala Ser Gln Val Gln Ser Lys Leu Lys Met
 20 25 30
 Leu Glu Lys Leu Pro Glu Leu Lys Pro Val Asp Lys Glu Ser Glu Val
 35 40 45
 Val Met Lys Phe Pro Asp Gly Phe Glu Lys Phe Ser Pro Pro Ile Leu
 50 55 60
 Gln Leu Asp Glu Val Asp Phe Tyr Tyr Asp Pro Lys His Val Ile Phe
 65 70 75 80
 Ser Arg Leu Ser Val Ser Ala Asp Leu Glu Ser Arg Ile Cys Val Val
 85 90 95
 Gly Glu Asn Gly Ala Gly Lys Ser Thr Met Leu Lys Leu Leu Leu Gly
 100 105 110
 Asp Leu Ala Pro Val Arg Gly Ile Arg His Ala His Arg Asn Leu Lys
 115 120 125
 Ile Gly Tyr Phe Ser Gln His His Val Glu Gln Leu Asp Leu Asn Val
 130 135 140
 Ser Ala Val Glu Leu Leu Ala Arg Lys Phe Pro Gly Arg Pro Glu Glu
 145 150 155 160
 Glu Tyr Arg His Gln Leu Gly Arg Tyr Gly Ile Ser Gly Glu Leu Ala
 165 170 175
 Met Arg Pro Leu Ala Ser Leu Ser Gly Gly Gln Lys Ser Arg Val Ala
 180 185 190
 Phe Ala Gln Met Thr Met Pro Cys Pro Asn Phe Tyr Ile Leu Asp Glu
 195 200 205
 Pro Thr Asn His Leu Asp Met Glu Thr Ile Glu Ala Leu Gly Arg Ala
 210 215 220
 Xaa Asn Asn Phe Arg Gly Gly Val Ile Leu Val Ser His Asp Glu Arg
 225 230 235 240
 Phe Ile Arg Leu Val Cys Arg Glu Leu Trp Val Cys Glu Gly Gly Gly
 245 250 255
 Val Thr Arg Val Glu Gly Gly Phe Asp Gln Tyr Arg Ala Leu Leu Gln
 260 265 270

Glu Gln Phe Arg Arg Glu Gly Phe Leu
275 280

<210> 804
<211> 65
<212> PRT
<213> Homo sapiens

<400> 804
Asn Val Leu Arg Leu Gly His Ile Lys Pro Thr Ile Phe Glu Asp His
1 5 10 15

Val Pro Ser Ala Leu Lys Thr Val Ser His Tyr Met Asn Met Thr Ile
20 25 30

Cys Ala His Leu Lys Phe Arg Ala Arg His Cys Asp Thr Asp Ala Glu
35 40 45

Ala Ser Arg Leu Val Lys Ser Leu Asp Phe Cys Gly Ile Phe Phe Val
50 55 60

Thr
65

<210> 805
<211> 166
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (92)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (105)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (165)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 805

Gly	Thr	Gly	Cys	Ile	Arg	Arg	Gly	His	Gln	Ala	Asp	His	Cys	Pro	Ser
1				5					10					15	

Ala	Met	Ala	Leu	Trp	Met	Arg	Leu	Leu	Pro	Leu	Leu	Ala	Leu	Leu	Ala
			20					25					30		

Leu	Trp	Gly	Pro	Asp	Pro	Ala	Ala	Ala	Phe	Val	Asn	Gln	His	Leu	Cys
		35					40					45			

Gly	Ser	His	Leu	Val	Glu	Ala	Leu	Tyr	Leu	Val	Cys	Gly	Glu	Arg	Gly
	50					55					60				

Phe	Phe	Tyr	Thr	Pro	Lys	Thr	Arg	Arg	Glu	Ala	Glu	Asp	Leu	Gln	Val
65					70					75				80	

Gly	Gln	Val	Xaa	Leu	Gly	Gly	Gly	Pro	Gly	Ala	Xaa	Ser	Leu	Gln	Pro
				85					90					95	

Leu	Ala	Leu	Glu	Gly	Val	Pro	Ala	Xaa	Ala	Trp	His	Cys	Gly	Thr	Met
			100					105					110		

Leu	Tyr	Gln	His	Leu	Leu	Pro	Leu	Pro	Ala	Gly	Xaa	Leu	Leu	Gln	Leu
		115					120					125			

Asp	Ala	Ala	Xaa	Arg	Gln	Pro	His	Thr	Arg	Arg	Leu	Leu	His	Arg	Xaa
	130					135						140			

Xaa	Trp	Asn	Lys	Ala	Leu	Glu	Pro	Ala	Lys	Lys	Lys	Lys	Arg	Gly	Gly
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

759

145 150 155 160

Arg Phe Arg Gly Xaa Lys
 165

<210> 806

<211> 528

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (483)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 806

Pro Leu Thr Ser Thr Leu Gln Glu Leu Phe Leu Asn Leu Ile Pro Ser
1 5 10 15

Gln Cys Leu Gly Gly Leu Trp Gly His Arg Asp Arg Pro Gly His Ser
 20 25 30

His Leu Cys Pro Ser Val Arg Ala Thr Val Thr Gln Phe Asn Lys Val
 35 40 45

Ala Gly Ala Val Val Ser Ser Val Leu Gly Ala Thr Ser Thr Gly Glu
50 55 60

Gly Pro Gly Glu Val Thr Ile Arg Pro Leu Arg Pro Pro Gln Arg Ala
65 70 75 80

Arg Leu Leu Glu Lys Trp Ile Arg Val Ala Glu Glu Cys Arg Leu Leu
 85 90 95

Arg Asn Phe Ser Ser Val Tyr Ala Val Val Ser Ala Leu Gln Ser Ser
 100 105 110

Pro Ile His Arg Leu Arg Ala Ala Trp Gly Glu Ala Thr Arg Asp Ser
115 120 125

Leu Arg Val Phe Ser Ser Leu Cys Gln Ile Phe Ser Glu Glu Asp Asn
130 135 140

Tyr Ser Gln Ser Arg Glu Leu Leu Val Gln Glu Val Lys Leu Gln Ser
145 150 155 160

Pro Leu Glu Pro His Ser Lys Lys Ala Pro Arg Ser Gly Ser Arg Gly
 165 170 175

760

Gly Gly Val Val Pro Tyr Leu Gly Thr Phe Leu Lys Asp Leu Val Met
 180 185 190

Leu Asp Ala Ala Ser Lys Asp Glu Leu Glu Asn Gly Tyr Ile Asn Phe
 195 200 205

Asp Lys Arg Arg Lys Glu Phe Ala Val Leu Ser Glu Leu Arg Arg Leu
 210 215 220

Gln Asn Glu Cys Arg Gly Tyr Asn Leu Gln Pro Asp His Asp Ile Gln
 225 230 235 240

Arg Trp Leu Gln Gly Leu Arg Pro Leu Thr Glu Ala Gln Ser His Arg
 245 250 255

Val Ser Cys Glu Val Glu Pro Pro Gly Ser Ser Asp Pro Pro Ala Pro
 260 265 270

Arg Val Leu Arg Pro Thr Leu Val Ile Ser Gln Trp Thr Glu Val Leu
 275 280 285

Gly Ser Val Gly Val Pro Thr Pro Leu Val Ser Cys Asp Arg Pro Ser
 290 295 300

Thr Gly Gly Asp Glu Ala Pro Thr Thr Pro Ala Pro Leu Leu Thr Arg
 305 310 315 320

Leu Ala Gln His Met Lys Trp Pro Ser Val Ser Ser Leu Asp Ser Ala
 325 330 335

Leu Glu Ser Ser Pro Ser Leu His Ser Pro Ala Asp Pro Ser His Leu
 340 345 350

Ser Pro Pro Ala Ser Ser Pro Arg Pro Ser Arg Gly His Arg Arg Ser
 355 360 365

Ala Ser Cys Gly Ser Pro Leu Ser Gly Gly Ala Glu Glu Ala Ser Gly
 370 375 380

Gly Thr Gly Tyr Gly Gly Glu Gly Ser Gly Pro Gly Ala Ser Asp Cys
 385 390 395 400

Arg Ile Ile Arg Val Gln Met Glu Leu Gly Glu Asp Gly Ser Val Tyr
 405 410 415

Lys Ser Ile Leu Val Thr Ser Gln Asp Lys Ala Pro Ser Val Ile Ser
 420 425 430

Arg Val Leu Lys Lys Asn Asn Arg Asp Ser Ala Val Ala Ser Glu Tyr
 435 440 445

761

Glu Leu Val Gln Leu Leu Pro Gly Glu Arg Glu Leu Thr Ile Pro Ala
 450 455 460
 Ser Ala Asn Val Phe Tyr Ala Met Asp Gly Ala Ser His Asp Phe Leu
 465 470 475 480
 Leu Arg Xaa Arg Arg Arg Ser Ser Thr Ala Thr Pro Gly Val Thr Ser
 485 490 495
 Gly Pro Ser Ala Ser Gly Thr Pro Pro Ser Glu Gly Gly Gly Gly Ser
 500 505 510
 Phe Pro Arg Ile Lys Ala Thr Gly Arg Lys Ile Ala Arg Ala Leu Phe
 515 520 525

<210> 807

<211> 319

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (306)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (316)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (319)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 807

Ala Ser Pro Gly Arg Ala Ala Gly Arg Gly Leu Ser Ala Gly Cys Thr
 1 5 10 15
 Thr Cys Arg Gly Ala Arg Pro Leu Val Lys Glu Lys Met Leu Ser Arg
 20 25 30
 Leu Arg Val Val Ser Thr Thr Cys Thr Leu Ala Cys Arg His Leu His
 35 40 45
 Ile Lys Glu Lys Gly Lys Pro Leu Met Leu Asn Pro Arg Thr Asn Lys

50		55		60
Gly Met Ala Phe Thr Leu Gln Glu Arg Gln Met Leu Gly Leu Gln Gly				
65		70		75
				80
Leu Leu Pro Pro Lys Ile Glu Thr Gln Asp Ile Gln Ala Leu Arg Phe				
	85		90	95
His Arg Asn Leu Lys Lys Met Thr Ser Pro Leu Glu Lys Tyr Ile Tyr				
	100		105	110
Ile Met Gly Ile Gln Glu Arg Asn Glu Lys Leu Phe Tyr Arg Ile Leu				
	115		120	125
Gln Asp Asp Ile Glu Ser Leu Met Pro Ile Val Tyr Thr Pro Thr Val				
	130		135	140
Gly Leu Ala Cys Ser Gln Tyr Gly His Ile Phe Arg Arg Pro Lys Gly				
145		150		155
				160
Leu Phe Ile Ser Ile Ser Asp Arg Gly His Val Arg Ser Ile Val Asp				
	165		170	175
Asn Trp Pro Glu Asn His Val Lys Ala Val Val Val Thr Asp Gly Glu				
	180		185	190
Arg Ile Leu Gly Leu Gly Asp Leu Gly Val Tyr Gly Met Gly Ile Pro				
	195		200	205
Val Gly Lys Leu Cys Leu Tyr Thr Ala Cys Ala Gly Ile Arg Pro Asp				
	210		215	220
Arg Cys Leu Pro Val Cys Ile Asp Val Gly Thr Asp Asn Ile Ala Leu				
225		230		235
				240
Leu Lys Asp Pro Phe Tyr Met Gly Leu Tyr Gln Lys Arg Asp Arg Thr				
	245		250	255
Gln Gln Tyr Asp Asp Leu Ile Asp Glu Phe Met Lys Ala Ile Thr Asp				
	260		265	270
Arg Tyr Gly Arg Asn Thr Leu Ile Gln Phe Glu Asp Phe Gly Asn His				
	275		280	285
Asn Gly Ile Gln Val Leu Glu Glu Ser Thr Glu Glu Lys Tyr Cys Tyr				
	290		295	300
Phe Xaa Met Met Asp Ile Ser Arg Gly Gln Leu Xaa Val Ser Xaa				
305		310		315

<210> 808

<211> 434

<212> PRT

<213> Homo sapiens

<400> 808

```

Ile Arg His Glu Glu Asp Thr Val Gln Val Ser Thr Leu Leu Arg Pro
 1             5             10             15

Pro His Cys Pro Arg Met Val Gln Asp Gly Asp Phe Val Arg Tyr His
      20             25             30

Tyr Asn Gly Thr Leu Leu Asp Gly Thr Ser Phe Asp Thr Ser Tyr Ser
      35             40             45

Lys Gly Gly Thr Tyr Asp Thr Tyr Val Gly Ser Gly Trp Leu Ile Lys
      50             55             60

Gly Met Asp Gln Gly Leu Leu Gly Met Cys Pro Gly Glu Arg Arg Lys
      65             70             75             80

Ile Ile Ile Pro Pro Phe Leu Ala Tyr Gly Glu Lys Gly Tyr Gly Thr
      85             90             95

Val Ile Pro Pro Gln Ala Ser Leu Val Phe His Val Leu Leu Ile Asp
      100            105            110

Val His Asn Pro Lys Asp Ala Val Gln Leu Glu Thr Leu Glu Leu Pro
      115            120            125

Pro Gly Cys Val Arg Arg Ala Gly Ala Gly Asp Phe Met Arg Tyr His
      130            135            140

Tyr Asn Gly Ser Leu Met Asp Gly Thr Leu Phe Asp Ser Ser Tyr Ser
      145            150            155            160

Arg Asn His Thr Tyr Asn Thr Tyr Ile Gly Gln Gly Tyr Ile Ile Pro
      165            170            175

Gly Met Asp Gln Gly Leu Gln Gly Ala Cys Met Gly Glu Arg Arg Arg
      180            185            190

Ile Thr Ile Pro Pro His Leu Ala Tyr Gly Glu Asn Gly Thr Gly Asp
      195            200            205

Lys Ile Pro Gly Ser Ala Val Leu Ile Phe Asn Val His Val Ile Asp
      210            215            220

Phe His Asn Pro Ala Asp Val Val Glu Ile Arg Thr Leu Ser Arg Pro
      225            230            235            240

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764

Ser Glu Thr Cys Asn Glu Thr Thr Lys Leu Gly Asp Phe Val Arg Tyr
 245 250 255

His Tyr Asn Cys Ser Leu Leu Asp Gly Thr Gln Leu Phe Thr Ser His
 260 265 270

Asp Tyr Gly Ala Pro Gln Glu Ala Thr Leu Gly Ala Asn Lys Val Ile
 275 280 285

Glu Gly Leu Asp Thr Gly Leu Gln Gly Met Cys Val Gly Glu Arg Arg
 290 295 300

Gln Leu Ile Val Pro Pro His Leu Ala His Gly Glu Ser Gly Ala Arg
 305 310 315 320

Gly Val Pro Gly Ser Ala Val Leu Leu Phe Glu Val Glu Leu Val Ser
 325 330 335

Arg Glu Asp Gly Leu Pro Thr Gly Tyr Leu Phe Val Trp His Lys Asp
 340 345 350

Pro Pro Ala Asn Leu Phe Glu Asp Met Asp Leu Asn Lys Asp Gly Glu
 355 360 365

Val Pro Pro Glu Glu Phe Ser Thr Phe Ile Lys Ala Gln Val Ser Glu
 370 375 380

Gly Lys Gly Arg Leu Met Pro Gly Gln Asp Pro Glu Lys Thr Ile Gly
 385 390 395 400

Asp Met Phe Gln Asn Gln Asp Arg Asn Gln Asp Gly Lys Ile Thr Val
 405 410 415

Asp Glu Leu Lys Leu Lys Ser Asp Glu Asp Glu Glu Arg Val His Glu
 420 425 430

Glu Leu

<210> 809

<211> 125

<212> PRT

<213> Homo sapiens

<400> 809

Gln Gly Gln Asp Lys Pro Ser Gly Leu Trp Pro Pro Gly Pro Trp Phe
 1 5 10 15

765

Pro Cys Pro Thr Thr Trp Ser Pro His Gly Trp Leu Ala Gly Cys Pro
 20 25 30
 Cys Val Cys Val Thr His Gly Val Ser Ala Gly Leu Cys Pro Gly Trp
 35 40 45
 Glu Gly Val Tyr Val Ala Leu Thr Val Leu Ala Gln Ser Trp Trp Ile
 50 55 60
 Leu Ser Met Asp Asn Asp Thr Leu Arg Ile Val Leu Val Cys Phe Ser
 65 70 75 80
 Tyr Leu Trp Gly Ile Phe Pro Leu Arg Leu Leu Gly Leu Leu Leu Pro
 85 90 95
 Gln Gly Val Leu Thr Leu Arg Leu Met Arg Gly Pro Leu Pro Val Ser
 100 105 110
 Pro Ile Leu Ser Ser Arg Glu Val Leu Thr Pro Asp Ser
 115 120 125

<210> 810

<211> 240

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (195)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 810

Asp Pro Glu Arg Trp Lys His Leu Xaa Lys Val Thr Pro Pro Gly Ser
 1 5 10 15

Ser Val Ser Thr Thr Pro Val Gln Val Val Arg Leu Gln Ser Pro Gln
 20 25 30

Ser Gln Gly Ser Met Met Pro Ser Cys Asn Arg Ser Cys Ser Cys Ser

766

35					40					45						
Arg	Gly	Pro	Ser	Val	Glu	Asp	Gly	Lys	Trp	Tyr	Gly	Val	Arg	Ser	Tyr	
50					55					60						
Leu	His	Leu	Phe	Tyr	Glu	Asp	Cys	Ala	Gly	Thr	Ala	Xaa	Ser	Asp	Asp	
65					70					75					80	
Pro	Glu	Gly	Pro	Pro	Val	Leu	Cys	Pro	Arg	Arg	Pro	Trp	Pro	Ser	Leu	
85					90					95						
Cys	Trp	Lys	Ile	Ser	Leu	Ser	Ser	Gly	Thr	Leu	Leu	Leu	Leu	Leu	Gly	
100					105					110						
Val	Ala	Ala	Leu	Thr	Thr	Gly	Tyr	Ala	Val	Pro	Pro	Lys	Leu	Glu	Gly	
115					120					125						
Ile	Gly	Glu	Gly	Glu	Phe	Leu	Val	Leu	Asp	Gln	Arg	Ala	Ala	Asp	Tyr	
130					135					140						
Asn	Gln	Ala	Leu	Gly	Thr	Cys	Arg	Leu	Ala	Gly	Thr	Ala	Leu	Cys	Val	
145					150					155					160	
Ala	Ala	Gly	Val	Leu	Leu	Ala	Ile	Cys	Leu	Phe	Trp	Ala	Met	Ile	Gly	
165					170					175						
Trp	Leu	Ser	Gln	Asp	Thr	Lys	Ala	Glu	Pro	Leu	Asp	Pro	Glu	Ala	Asp	
180					185					190						
Ser	His	Xaa	Glu	Val	Phe	Gly	Asp	Glu	Pro	Glu	Gln	Gln	Leu	Ser	Pro	
195					200					205						
Ile	Phe	Arg	Asn	Ala	Ser	Gly	Gln	Ser	Trp	Phe	Ser	Pro	Pro	Ala	Ser	
210					215					220						
Pro	Phe	Gly	Gln	Ser	Ser	Val	Gln	Thr	Ile	Gln	Pro	Lys	Arg	Asp	Ser	
225					230					235					240	

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<210> 811
<211> 855
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (479)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (829)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 811

Thr	Asp	Arg	Lys	His	Arg	Lys	Ala	Phe	Leu	Glu	Ala	Arg	Gln	Ser	Leu	1	5	10	15
Glu	Val	Lys	Met	Asn	Leu	Glu	Glu	Gln	Ser	Gln	Gln	Gln	Glu	Asn	Leu	20	25	30	
Met	Leu	Ser	Ile	Leu	Pro	Lys	His	Val	Ala	Asp	Glu	Met	Leu	Lys	Asp	35	40	45	
Met	Lys	Lys	Asp	Glu	Ser	Gln	Lys	Asp	Gln	Gln	Gln	Phe	Asn	Thr	Met	50	55	60	
Tyr	Met	Tyr	Arg	His	Glu	Asn	Val	Ser	Ile	Leu	Phe	Ala	Asp	Ile	Val	65	70	75	80
Gly	Phe	Thr	Gln	Leu	Ser	Ser	Ala	Cys	Ser	Ala	Gln	Glu	Leu	Val	Lys	85	90	95	
Leu	Leu	Asn	Glu	Leu	Phe	Ala	Arg	Phe	Asp	Lys	Leu	Ala	Ala	Lys	Tyr	100	105	110	
His	Gln	Leu	Arg	Ile	Lys	Ile	Leu	Gly	Asp	Cys	Tyr	Tyr	Cys	Ile	Cys	115	120	125	
Gly	Leu	Pro	Asp	Tyr	Arg	Glu	Asp	His	Ala	Val	Cys	Ser	Ile	Leu	Met	130	135	140	
Gly	Leu	Ala	Met	Val	Glu	Ala	Ile	Ser	Tyr	Val	Arg	Glu	Lys	Thr	Lys	145	150	155	160
Thr	Gly	Val	Asp	Met	Arg	Val	Gly	Val	His	Thr	Gly	Thr	Val	Leu	Gly	165	170	175	
Gly	Val	Leu	Gly	Gln	Lys	Arg	Trp	Gln	Tyr	Asp	Val	Trp	Ser	Thr	Asp	180	185	190	
Val	Thr	Val	Ala	Asn	Lys	Met	Glu	Ala	Gly	Gly	Ile	Pro	Gly	Arg	Val	195	200	205	
His	Ile	Ser	Gln	Ser	Thr	Met	Asp	Cys	Leu	Lys	Gly	Glu	Phe	Asp	Val	210	215	220	
Glu	Pro	Gly	Asp	Gly	Gly	Ser	Arg	Cys	Asp	Tyr	Leu	Glu	Glu	Lys	Gly				

225		230		235		240
Ile Glu Thr Tyr	Leu Ile Ile Ala Ser Lys Pro Glu Val Lys Lys Thr					
	245		250		255	
Ala Thr Gln Asn Gly Leu Asn Gly Ser Ala Leu Pro Asn Gly Ala Pro						
	260		265		270	
Ala Ser Ser Lys Ser Ser Ser Pro Ala Leu Ile Glu Thr Lys Glu Pro						
	275		280		285	
Asn Gly Ser Ala His Ser Ser Gly Ser Thr Ser Glu Lys Pro Glu Glu						
	290		295		300	
Gln Asp Ala Gln Ala Asp Asn Pro Ser Phe Pro Asn Pro Arg Arg Arg						
305		310		315		320
Leu Arg Leu Gln Asp Leu Ala Asp Arg Val Val Asp Ala Ser Glu Asp						
	325		330		335	
Glu His Glu Leu Asn Gln Leu Leu Asn Glu Ala Leu Leu Glu Arg Glu						
	340		345		350	
Ser Ala Gln Val Val Lys Lys Arg Asn Thr Phe Leu Leu Ser Met Arg						
	355		360		365	
Phe Met Asp Pro Glu Met Glu Thr Arg Tyr Ser Val Glu Lys Glu Lys						
	370		375		380	
Gln Ser Gly Ala Ala Phe Ser Cys Ser Cys Val Val Leu Leu Cys Thr						
385		390		395		400
Ala Leu Val Glu Ile Leu Ile Asp Pro Trp Leu Met Thr Asn Tyr Val						
	405		410		415	
Thr Phe Met Val Gly Glu Ile Leu Leu Leu Ile Leu Thr Ile Cys Ser						
	420		425		430	
Leu Ala Ala Ile Phe Pro Arg Ala Phe Pro Lys Lys Leu Val Ala Phe						
	435		440		445	
Ser Thr Trp Ile Asp Arg Thr Arg Trp Ala Arg Asn Thr Trp Ala Met						
	450		455		460	
Leu Ala Ile Phe Ile Leu Val Met Ala Asn Val Val Asp Met Xaa Ser						
465		470		475		480
Cys Leu Gln Tyr Tyr Thr Gly Pro Ser Asn Ala Thr Ala Gly Met Glu						
	485		490		495	
Thr Glu Gly Ser Cys Leu Glu Asn Pro Lys Tyr Tyr Asn Tyr Val Ala						

500	505	510
Val Leu Ser Leu Ile Ala Thr Ile Met Leu Val Gln Val Ser His Met		
515	520	525
Val Lys Leu Thr Leu Met Leu Leu Val Ala Gly Ala Val Ala Thr Ile		
530	535	540
Asn Leu Tyr Ala Trp Arg Pro Val Phe Asp Glu Tyr Asp His Lys Arg		
545	550	555
Phe Arg Glu His Asp Leu Pro Met Val Ala Leu Glu Gln Met Gln Gly		
565	570	575
Phe Asn Pro Gly Leu Asn Gly Thr Asp Arg Leu Pro Leu Val Pro Ser		
580	585	590
Lys Tyr Ser Met Thr Val Met Val Phe Leu Met Met Leu Ser Phe Tyr		
595	600	605
Tyr Phe Ser Arg His Val Glu Lys Leu Ala Arg Thr Leu Phe Leu Trp		
610	615	620
Lys Ile Glu Val His Asp Gln Lys Glu Arg Val Tyr Glu Met Arg Arg		
625	630	635
Trp Asn Glu Ala Leu Val Thr Asn Met Leu Pro Glu His Val Ala Arg		
645	650	655
His Phe Leu Gly Ser Lys Lys Arg Asp Glu Glu Leu Tyr Ser Gln Thr		
660	665	670
Tyr Asp Glu Ile Gly Val Met Phe Ala Ser Leu Pro Asn Phe Ala Asp		
675	680	685
Phe Tyr Thr Glu Glu Ser Ile Asn Asn Gly Gly Ile Glu Cys Leu Arg		
690	695	700
Phe Leu Asn Glu Ile Ile Ser Asp Phe Asp Ser Leu Leu Asp Asn Pro		
705	710	715
Lys Phe Arg Val Ile Thr Lys Ile Lys Thr Ile Gly Ser Thr Tyr Met		
725	730	735
Ala Ala Ser Gly Val Thr Pro Asp Val Asn Thr Asn Gly Phe Ala Ser		
740	745	750
Ser Asn Lys Glu Asp Lys Ser Glu Arg Glu Arg Trp Gln His Leu Ala		
755	760	765
Asp Leu Ala Asp Phe Ala Leu Ala Met Lys Asp Thr Leu Thr Asn Ile		

770

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      770              775              780
Asn Asn Gln Ser Phe Asn Asn Phe Met Leu Arg Ile Gly Met Asn Lys
785              790              795              800

Gly Gly Val Leu Ala Gly Val Ile Gly Ala Arg Lys Pro His Tyr Asp
      805              810              815

Ile Trp Gly Asn Thr Val Asn Val Ala Ser Arg Met Xaa Val His Gly
      820              825              830

Gly His Gly Gln His Ser Gly Gly Glu Gly Asn Pro Ser Ser Ser Ser
      835              840              845

Glu Glu Leu Arg Val Ser Val
      850              855

```

<210> 812

<211> 207

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 812

```

Arg Gln Lys Gly Ala Phe Leu Arg Xaa Ser Arg Arg Ala Ala Gly Leu
  1              5              10              15

```

```

Leu Leu Leu Pro Pro Arg Ala Pro Ala Ala Met Phe Asn Arg Ala Val
      20              25              30

```

```

Ser Arg Leu Ser Arg Lys Arg Pro Pro Ser Asp Ile His Asp Ser Asp
      35              40              45

```

```

Gly Ser Ser Ser Ser Ser His Gln Ser Leu Lys Ser Thr Ala Lys Trp
      50              55              60

```

```

Ala Ala Ser Leu Glu Asn Leu Leu Glu Asp Pro Glu Gly Val Lys Arg
      65              70              75              80

```

```

Phe Arg Glu Phe Leu Lys Lys Glu Phe Ser Glu Glu Asn Val Leu Phe
      85              90              95

```

```

Trp Leu Ala Cys Glu Asp Phe Lys Lys Met Gln Asp Lys Thr Gln Met
      100              105              110

```


771

Gln Glu Lys Ala Lys Glu Ile Tyr Met Thr Phe Leu Ser Ser Lys Ala
 115 120 125
 Ser Ser Gln Val Asn Val Glu Gly Gln Ser Arg Leu Asn Glu Lys Ile
 130 135 140
 Leu Glu Glu Pro His Pro Leu Met Phe Gln Lys Leu Gln Asp Gln Ile
 145 150 155 160
 Phe Asn Leu Met Lys Tyr Asp Ser Tyr Ser Arg Phe Leu Lys Ser Asp
 165 170 175
 Leu Phe Leu Lys His Lys Arg Thr Glu Glu Glu Glu Asp Leu Pro
 180 185 190
 Asp Ala Gln Thr Ala Ala Lys Arg Ala Ser Arg Ile Tyr Asn Thr
 195 200 205

<210> 813
 <211> 233
 <212> PRT
 <213> Homo sapiens

<400> 813
 Ala Arg Ser Arg Ala Gly Gly Gly Gly Trp Gly Arg Ile Ala Gly Glu
 1 5 10 15
 Ile Thr Arg Arg Gly Ser Arg Ala Arg Pro Arg Pro Gly Pro Gln Cys
 20 25 30
 Pro Pro Gly Arg Pro Gly Thr Ala Met Ile Lys Ala Ile Leu Ile Phe
 35 40 45
 Asn Asn His Gly Lys Pro Arg Leu Ser Lys Phe Tyr Gln Pro Tyr Ser
 50 55 60
 Glu Asp Thr Gln Gln Gln Ile Ile Arg Glu Thr Phe His Leu Val Ser
 65 70 75 80
 Lys Arg Asp Glu Asn Val Cys Asn Phe Leu Glu Gly Gly Leu Leu Ile
 85 90 95
 Gly Gly Ser Asp Asn Lys Leu Ile Tyr Arg His Tyr Ala Thr Leu Tyr
 100 105 110
 Phe Val Phe Cys Val Asp Ser Ser Glu Ser Glu Leu Gly Ile Leu Asp
 115 120 125
 Leu Ile Gln Val Phe Val Glu Thr Leu Asp Lys Cys Phe Glu Asn Val

772

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      130              135              140
Cys Glu Leu Asp Leu Ile Phe His Val Asp Lys Val His Asn Ile Leu
145              150              155              160
Ala Glu Met Val Met Gly Gly Met Val Leu Glu Thr Asn Met Asn Glu
      165              170              175
Ile Val Thr Gln Ile Asp Ala Gln Asn Lys Leu Glu Lys Ser Glu Ala
      180              185              190
Gly Leu Ala Gly Ala Pro Ala Arg Ala Val Ser Ala Val Lys Asn Met
      195              200              205
Asn Leu Pro Glu Ile Pro Arg Asn Ile Asn Ile Gly Asp Ile Ser Ile
      210              215              220
Lys Val Pro Asn Leu Pro Ser Phe Lys
225              230

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<210> 814

<211> 353

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 814

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Asn Leu Ile Leu Trp Arg Xaa Ala Met Gln Leu Glu Ile Gln Val Ala
 1              5              10              15
Leu Asn Phe Ile Ile Ser Tyr Leu Tyr Asn Lys Leu Pro Arg Arg Arg
      20              25              30
Val Asn Ile Phe Gly Glu Glu Leu Glu Arg Leu Leu Lys Lys Lys Tyr
      35              40              45
Glu Gly His Trp Tyr Pro Glu Lys Pro Tyr Lys Gly Ser Gly Phe Arg
      50              55              60
Cys Ile His Ile Gly Glu Lys Val Asp Pro Val Ile Glu Gln Ala Ser
      65              70              75              80
Lys Glu Ser Gly Leu Asp Ile Asp Asp Val Arg Gly Asn Leu Pro Gln
      85              90              95

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Asp Leu Ser Val Trp Ile Asp Pro Phe Glu Val Ser Tyr Gln Ile Gly
 100 105 110
 Glu Lys Gly Pro Val Lys Val Leu Tyr Val Asp Asp Asn Asn Glu Asn
 115 120 125
 Gly Cys Glu Leu Asp Lys Glu Ile Lys Asn Ser Phe Asn Pro Glu Ala
 130 135 140
 Gln Val Phe Met Pro Ile Ser Asp Pro Ala Ser Ser Val Ser Ser Ser
 145 150 155 160
 Pro Ser Pro Pro Phe Gly His Ser Ala Ala Val Ser Pro Thr Phe Met
 165 170 175
 Pro Arg Ser Thr Gln Pro Leu Thr Phe Thr Thr Ala Thr Phe Ala Ala
 180 185 190
 Thr Lys Phe Gly Ser Thr Lys Met Lys Asn Ser Gly Arg Ser Asn Lys
 195 200 205
 Val Ala Arg Thr Ser Pro Ile Asn Leu Gly Leu Asn Val Asn Asp Leu
 210 215 220
 Leu Lys Gln Lys Ala Ile Ser Ser Ser Met His Ser Leu Tyr Gly Leu
 225 230 235 240
 Gly Leu Gly Ser Gln Gln Gln Pro Gln Gln Gln Gln Pro Ala Gln
 245 250 255
 Pro Pro Pro Pro Pro Pro Pro Pro Gln Gln Gln Gln Gln Gln Lys Thr
 260 265 270
 Ser Ala Leu Ser Pro Asn Ala Lys Glu Phe Ile Phe Pro Asn Met Gln
 275 280 285
 Gly Gln Gly Ser Ser Thr Asn Gly Met Phe Pro Gly Asp Ser Pro Leu
 290 295 300
 Asn Leu Ser Pro Leu Gln Tyr Ser Asn Ala Phe Asp Val Phe Ala Ala
 305 310 315 320
 Tyr Gly Gly Leu Asn Glu Lys Ser Phe Val Asp Gly Leu Asn Phe Ser
 325 330 335
 Leu Asn Asn Met Gln Tyr Ser Asn Gln Gln Phe Gln Pro Val Met Ala
 340 345 350
 Asn

<210> 815
<211> 82
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 815
Leu Ser Ala Cys Phe Ala Tyr His Arg Asp Ile Ser Met Ala Val Pro
1 5 10 15
Pro Cys Arg Val Ala Tyr Gln Thr Asp Val Asp Cys Xaa Ile Ser Trp
20 25 30
Gln His Gln Ser Met Gly Cys Leu Thr Phe Trp Tyr Leu Ser Ser Asp
35 40 45
His Pro Tyr Pro Met Phe Ser Phe Lys His Tyr Pro Ala Ser Leu Phe
50 55 60
Ile Ile Arg Asn Ser Gly Pro Ser Val Trp Trp His Leu Glu Ser Phe
65 70 75 80
Val Pro

<210> 816
<211> 328
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (170)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (172)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (174)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (178)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (183)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (269)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (286)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 816

Phe	Thr	Val	Ser	Ser	Gly	Pro	Phe	Asn	Ile	Ile	Asn	Val	Ser	Leu	Ser
1				5				10					15		

Gly	Gly	Thr	Asn	Glu	Glu	Ile	Leu	Glu	Ser	Ile	Arg	Ala	Lys	Lys	Gly
			20					25					30		

Asp	Ile	Asp	Asn	Val	Lys	Ser	Pro	Thr	Gly	Glu	Glu	Thr	Glu	Lys	Asp
		35					40					45			

Lys	Asn	Glu	Thr	Glu	Asn	Asp	Ser	Lys	Asp	Ala	Glu	Lys	Asn	Arg	Glu
	50					55					60				

Glu	Phe	Glu	Asp	Gln	Ser	Leu	Glu	Lys	Asp	Ser	Asp	Asp	Lys	Thr	Pro
65					70				75						80

Asp	Asp	Asp	Pro	Glu	Gln	Gly	Lys	Ser	Glu	Val	Gly	Asp	Phe	Lys	Ser
				85					90					95	

Glu	Lys	Ser	Asn	Gly	Glu	Leu	Ser	Glu	Ser	Pro	Gly	Ala	Gly	Lys	Gly
			100					105					110		

Ala	Ser	Gly	Ser	Thr	Arg	Ile	Ile	Thr	Arg	Leu	Arg	Asn	Pro	Asp	Ser
		115					120					125			

Lys	Leu	Ser	Gln	Leu	Lys	Ser	Gln	Gln	Val	Ala	Ala	Ala	Ala	His	Glu
	130					135						140			

Ala	Asn	Lys	Leu	Phe	Lys	Glu	Gly	Lys	Glu	Val	Leu	Val	Val	Asn	Ser
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

145		150		155		160
Gln Gly Glu Ile Ser Arg Leu Ser Thr Xaa Lys Xaa Val Xaa Met Lys						
	165			170		175
Gly Xaa Ile Asn Asn Tyr Xaa Lys Leu Gly Gln Glu Gly Lys Tyr Arg						
	180		185		190	
Val Tyr His Asn Gln Tyr Ser Thr Asn Ser Phe Ala Leu Asn Lys His						
	195		200		205	
Gln His Arg Glu Asp His Asp Lys Arg Arg His Leu Ala His Lys Phe						
	210		215		220	
Cys Leu Thr Pro Ala Gly Glu Phe Lys Trp Asn Gly Ser Val His Gly						
	225		230		235	240
Ser Lys Val Leu Thr Ile Ser Thr Leu Arg Leu Thr Ile Thr Gln Leu						
	245		250		255	
Glu Asn Asn Ile Pro Ser Ser Phe Leu His Pro Asn Xaa Ala Ser His						
	260		265		270	
Arg Ala Asn Trp Ile Lys Ala Val Gln Met Cys Ser Lys Xaa Arg Glu						
	275		280		285	
Phe Ala Leu Ala Leu Ala Ile Leu Glu Cys Ala Val Lys Pro Val Val						
	290		295		300	
Met Leu Pro Ile Trp Arg Glu Ser Leu Gly His Thr Ser Phe Leu Pro						
	305		310		315	320
Leu Ser His Asn His Val His Gln						
	325					

<210> 817

<211> 290

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (210)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (213)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (271)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (290)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 817

Glu Leu Ile Leu Glu Pro Lys Asp Leu Tyr Ile Asp Arg Pro Leu Pro
 1 5 10 15

Tyr Leu Ile Gly Ser Lys Leu Phe Met Glu Gln Glu Asp Val Gly Leu
 20 25 30

Gly Glu Leu Ser Ser Glu Glu Gly Ser Val Gly Ser Asp Arg Gly Ser
 35 40 45

Ile Val Asp Thr Glu Glu Glu Lys Glu Glu Glu Glu Ser Asp Glu Asp
 50 55 60

Phe Ala His His Ser Asp Asn Glu Gln Asn Gln His Thr Thr Gln Met
 65 70 75 80

Ser Asp Glu Glu Glu Asp Asp Asp Gly Cys Asp Leu Phe Ala Asp Ser
 85 90 95

Glu Lys Glu Glu Glu Asp Ile Glu Asp Ile Glu Glu Asn Thr Arg Pro
 100 105 110

Lys Arg Ser Arg Pro Thr Ser Phe Ala Asp Glu Leu Ala Ala Arg Ile
 115 120 125

Lys Gly Asp Ala Met Gly Arg Val Asp Glu Glu Pro Thr Thr Leu Pro
 130 135 140

Ser Gly Glu Ala Lys Pro Arg Lys Thr Leu Lys Glu Lys Lys Glu Arg
 145 150 155 160

Arg Thr Pro Ser Asp Asp Glu Glu Asp Asn Leu Phe Ala Pro Pro Lys
 165 170 175

Leu Thr Asp Glu Asp Phe Ser Pro Phe Gly Ser Gly Gly Gly Leu Phe
 180 185 190

Ser Gly Gly Lys Gly Leu Phe Asp Asp Glu Asp Glu Glu Ser Asp Leu
 195 200 205

778

Phe Xaa Glu Ala Xaa Gln Asp Arg Gln Ala Gly Ala Ser Val Lys Glu
 210 215 220

Glu Ser Ser Ser Ser Lys Pro Gly Lys Lys Ile Pro Ala Gly Ala Val
 225 230 235 240

Ser Val Phe Leu Gly Asp Thr Asp Val Phe Gly Ala Ala Ser Val Pro
 245 250 255

Ser Leu Lys Glu Pro Gln Lys Pro Glu Gln Pro Thr Pro Arg Xaa Ser
 260 265 270

Pro Tyr Gly Pro Pro Pro Thr Gly Leu Phe Asp Asp Asp Asp Gly Asp
 275 280 285

Asp Xaa
 290

<210> 818

<211> 117

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 818

Lys Arg Gln Leu Ala Val Gln Ser Leu Ala Phe Asn Leu Lys Xaa Lys
 1 5 10 15

Val Phe Cys Glu Leu Phe Pro Glu Val Val Glu Val Arg Lys Thr Glu
 20 25 30

Val Gly Phe Ala Phe Pro Cys Val Lys Thr Leu Glu Phe His Leu Phe
 35 40 45

Pro Lys Ser Lys Ile Cys Val Leu Lys Leu Gln Thr Ser Pro Gly Asp
 50 55 60

Gly Ser Ser Pro Pro Gly Ala Pro Arg Gln Gly Arg Gln Lys Ala Trp
 65 70 75 80

Ala Leu Gly Gly Gly Leu Arg Thr Ala Val Leu Val Gly Arg Gly Leu
 85 90 95

Gly Leu Ser His Arg Gly Val Glu Leu Val Val Leu Ser Ser Gln Leu
 100 105 110

Gly Gly Val Trp Gly
115

<210> 819

<211> 157

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 819

Pro Gly Val Cys Cys Ser Ala Gly Ala Ser Phe Arg Arg Gly Ala Asp
1 5 10 15

Phe Asp Ser Trp Gly Gln Leu Val Glu Ala Ile Asp Xaa Tyr Gln Ile
20 25 30

Leu Ala Arg His Leu Gln Lys Glu Ala Gln Ala Gln His Asn Asn Ser
35 40 45

Glu Phe Thr Glu Glu Gln Lys Lys Thr Ile Gly Lys Ile Ala Thr Cys
50 55 60

Leu Gly Ile Ala Ser Ala Ala Leu Gln Ser Thr Gln Ser Gln Glu Glu
65 70 75 80

Phe Lys Leu Glu Asp Leu Lys Lys Leu Glu Pro Ile Leu Lys Asn Ile
85 90 95

Leu Thr Tyr Asn Lys Glu Phe Pro Phe Asp Val Gln Pro Val Pro Leu
100 105 110

Arg Arg Phe Trp His Leu Val Lys Lys Arg Ile Trp Glu Phe Gly Arg
115 120 125

Arg Xaa Lys Lys Arg Val Val Leu Gly Ala Gly Ser Pro Asp Ser Phe
130 135 140

Ser Cys Leu Glu Phe Pro Gly Thr Phe Ile Tyr Pro Arg
145 150 155

780

<210> 820

<211> 77

<212> PRT

<213> Homo sapiens

<400> 820

Arg Glu Thr Ala Cys Cys Gly Arg Asp Ala Arg Gly Ala Ala Pro Ala
1 5 10 15

Ala Met Ala Val Thr Ala Leu Ala Ala Arg Thr Trp Leu Gly Val Trp
20 25 30

Gly Val Arg Thr Met Gln Ala Arg Gly Phe Gly Ser Asp Gln Ser Glu
35 40 45

Asn Val Asp Arg Gly Ala Gly Ser Ile Arg Glu Ala Gly Gly Ala Phe
50 55 60

Gly Lys Arg Glu Gln Ala Glu Glu Glu Arg Tyr Phe Arg
65 70 75

<210> 821

<211> 74

<212> PRT

<213> Homo sapiens

<400> 821

His Leu Gly Phe Ile Gly Thr Lys Asn Lys Ser Tyr Thr Ser Cys Thr
1 5 10 15

Leu Phe Phe Glu Phe Leu Leu Met Arg Asn Ile His Phe Cys Ile Asp
20 25 30

Ser Asp Phe Lys Ile Ala Leu Ser Ala Phe Lys Gly Phe Leu Thr Ser
35 40 45

Arg Ala His Gln Asn Cys Gln Val Pro Ser Gly Ser Glu Ala Val Ser
50 55 60

Leu Gly Gly Leu Trp His Gln His Phe His
65 70

<210> 822

<211> 451

<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (178)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (205)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (220)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (278)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (393)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (435)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 822
Arg Pro Leu Pro Thr Ser Thr Asn Val Lys Thr Leu Thr Gly Phe Gly
1 5 10 15

Pro Gly Leu Ala Met Glu Thr Ala Leu Arg Ser Pro Asp Arg Pro Glu
20 25 30

Cys Ile Arg Leu Tyr Ala Pro Pro Phe Ile Leu Ala Pro Val Lys Asp
35 40 45

Xaa Gln Thr Glu Leu Gly Glu Thr Phe Gly Glu Ala Gly Gln Lys Tyr
50 55 60

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Asn Val Leu Phe Val Gly Tyr Cys Leu Ser His Asp Gln Arg Trp Ile
65              70              75              80

Leu Ala Ser Cys Thr Asp Leu Tyr Gly Glu Leu Leu Glu Thr Cys Ile
85              90              95

Ile Asn Ile Asp Val Pro Asn Arg Ala Arg Arg Lys Lys Ser Ser Ala
100            105            110

Arg Lys Phe Gly Leu Gln Lys Leu Trp Glu Trp Cys Leu Gly Leu Val
115            120            125

Gln Met Ser Ser Leu Pro Trp Arg Val Val Ile Gly Arg Leu Gly Arg
130            135            140

Ile Gly His Gly Glu Leu Lys Asp Trp Ser Cys Leu Leu Ser Arg Arg
145            150            155            160

Asn Leu Gln Ser Leu Ser Lys Arg Leu Lys Asp Met Cys Arg Met Cys
165            170            175

Gly Xaa Ser Ala Ala Asp Ser Pro Ser Ile Leu Ser Ala Cys Leu Val
180            185            190

Ala Met Glu Pro Gln Gly Ser Phe Val Ile Met Pro Xaa Ser Val Ser
195            200            205

Thr Gly Ser Val Phe Gly Arg Ser Thr Thr Leu Xaa Met Gln Thr Ser
210            215            220

Gln Leu Asn Thr Pro Gln Asp Thr Ser Cys Thr His Ile Leu Val Phe
225            230            235            240

Pro Thr Ser Ala Ser Val Gln Val Ala Ser Ala Thr Tyr Thr Thr Glu
245            250            255

Asn Leu Asp Leu Ala Phe Asn Pro Asn Asn Asp Gly Ala Asp Gly Met
260            265            270

Gly Ile Phe Asp Leu Xaa Asp Thr Gly Asp Asp Leu Asp Pro Asp Ile
275            280            285

Ile Asn Ile Leu Pro Ala Ser Pro Thr Gly Ser Pro Val His Ser Pro
290            295            300

Gly Ser His Tyr Pro His Gly Gly Asp Ala Gly Lys Gly Gln Ser Thr
305            310            315            320

Asp Arg Leu Leu Ser Thr Glu Pro His Glu Glu Val Pro Asn Ile Leu
325            330            335

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Gln Gln Pro Leu Ala Leu Gly Tyr Phe Val Ser Thr Ala Lys Ala Gly
 340 345 350
 Pro Leu Pro Asp Trp Phe Trp Ser Ala Cys Pro Gln Ala Gln Tyr Gln
 355 360 365
 Cys Pro Leu Phe Leu Lys Ala Ser Leu His Leu His Val Pro Ser Val
 370 375 380
 Gln Ser Asp Glu Leu Leu His Ser Xaa His Ser His Pro Leu Asp Ser
 385 390 395 400
 Asn Gln Thr Ser Asp Val Leu Arg Phe Val Leu Glu Gln Tyr Asn Ala
 405 410 415
 Leu Ser Trp Leu Thr Cys Asp Pro Ala Thr Gln Asp Arg Arg Ser Cys
 420 425 430
 Leu Pro Xaa His Phe Val Val Leu Asn Gln Leu Tyr Asn Phe Ile Met
 435 440 445
 Asn Met Leu
 450

<210> 823
 <211> 211
 <212> PRT
 <213> Homo sapiens

<400> 823
 Ile Leu Ile Ala Thr Asp Val Ala Ser Arg Gly Leu Asp Val Glu Asp
 1 5 10 15
 Val Lys Phe Val Ile Asn Tyr Asp Tyr Pro Asn Ser Ser Glu Asp Tyr
 20 25 30
 Val His Arg Ile Gly Arg Thr Ala Arg Ser Thr Asn Lys Gly Thr Ala
 35 40 45
 Tyr Thr Phe Phe Thr Pro Gly Asn Leu Lys Gln Ala Arg Glu Leu Ile
 50 55 60
 Lys Val Leu Glu Glu Ala Asn Gln Ala Ile Asn Pro Lys Leu Met Gln
 65 70 75 80
 Leu Val Asp His Arg Gly Gly Gly Gly Gly Gly Gly Arg Ser Arg
 85 90 95
 Tyr Arg Thr Thr Ser Ser Ala Asn Asn Pro Asn Leu Met Tyr Gln Asp

784

100	105	110
Glu Cys Asp Arg Ser Phe Glu Glu Ser Arg Met Val Ala Gly Glu Thr		
115	120	125
Leu Gln Ala Ile Gly Ile Val Val Lys Pro Ile Glu Leu Val Met Leu		
130	135	140
Met Ala Val Ala Met Glu Val Gln Ile Leu Pro Leu Glu His Lys Gln		
145	150	155
Ala Asn Thr Pro Met Val Lys Ala Pro Met Gly Gln Leu Leu Met Ala		
165	170	175
Pro Val Ala Ile Gln Leu Lys Asn Met Val Leu Ala Leu Met Glu Leu		
180	185	190
Val Ala Pro Pro Gln Leu Gly Glu Val His Arg Ala Leu Ala Ser Ser		
195	200	205
Leu Val Gly		
210		

<210> 824
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 824
 Gly Arg Pro Thr Arg Pro Gly Val Ser Ser Cys Leu Pro Gly Trp Ser
 1 5 10 15

Arg Thr Pro Gly Leu Lys
 20

<210> 825
 <211> 393
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (96)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 825
 Thr Thr Val Thr Arg Cys Ser Pro Thr Val Ala Phe Val Glu Phe Pro

785

1	5	10	15
Ser Ser Pro Gln Leu Lys Asn Asp Val Ser Glu Glu Lys Asp Gln Lys	20	25	30
Lys Pro Glu Asn Glu Met Ser Gly Lys Val Glu Leu Val Leu Ser Gln	35	40	45
Lys Val Val Lys Pro Lys Ser Pro Glu Pro Glu Ala Thr Leu Thr Phe	50	55	60
Pro Phe Leu Asp Lys Met Pro Glu Ala Asn Gln Leu His Leu Pro Asn	65	70	75
Leu Asn Ser Gln Val Asp Ser Pro Ser Ser Glu Lys Ser Pro Val Xaa	85	90	95
Thr Pro Phe Lys Phe Trp Ala Trp Asp Pro Glu Glu Glu Arg Arg Arg	100	105	110
Gln Glu Lys Trp Gln Gln Glu Gln Glu Arg Leu Leu Gln Glu Arg Tyr	115	120	125
Gln Lys Glu Gln Asp Lys Leu Lys Glu Glu Trp Glu Lys Ala Gln Lys	130	135	140
Glu Val Glu Glu Glu Glu Arg Arg Tyr Tyr Glu Glu Glu Arg Lys Ile	145	150	155
Ile Glu Asp Thr Val Val Pro Phe Thr Val Ser Ser Ser Ser Ala Asp	165	170	175
Gln Leu Ser Thr Ser Ser Ser Met Thr Glu Gly Ser Gly Thr Met Asn	180	185	190
Lys Ile Asp Leu Gly Asn Cys Gln Asp Glu Lys Gln Asp Arg Arg Trp	195	200	205
Lys Lys Ser Phe Gln Gly Asp Asp Ser Asp Leu Leu Leu Lys Thr Arg	210	215	220
Glu Ser Asp Arg Leu Glu Glu Lys Gly Ser Leu Thr Glu Gly Ala Leu	225	230	235
Ala His Ser Gly Asn Pro Val Ser Lys Gly Val His Glu Asp His Gln	245	250	255
Leu Asp Thr Glu Ala Gly Ala Pro His Cys Gly Thr Asn Pro Gln Leu	260	265	270
Ala Gln Asp Pro Ser Gln Asn Gln Gln Thr Ser Asn Pro Thr His Ser			

786

275	280	285
Ser Glu Asp Val Lys Pro Lys Thr Leu Pro Leu Asp Lys Ser Ile Asn		
290	295	300
His Gln Ile Glu Ser Pro Ser Glu Arg Arg Lys Ser Ile Ser Gly Lys		
305	310	315
Lys Leu Cys Ser Ser Cys Gly Leu Pro Leu Gly Lys Gly Ala Ala Met		
	325	330
Ile Ile Glu Thr Leu Asn Leu Tyr Phe His Ile Gln Cys Phe Arg Cys		
	340	345
Gly Ile Cys Lys Gly Gln Leu Gly Asp Ala Val Ser Gly Thr Asp Val		
	355	360
Arg Ile Arg Asn Gly Leu Leu Asn Cys Asn Asp Cys Tyr Met Arg Ser		
	370	375
Arg Ser Ala Gly Gln Pro Thr Thr Leu		
385	390	

<210> 826

<211> 265

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 826

His Ser Pro Val Pro Gln Ser Leu Pro Ala Arg Cys Ala Ala Ala Glu		
1	5	10
Ala Met Arg Leu Ile Gln Asn Met Cys Thr Ile Ala Glu Tyr Pro Ala		
	20	25
Pro Gly Asn Ala Ala Ala Ser Asp Cys Cys Val Gly Ala Ala Gly Arg		
	35	40
Arg Leu Val Lys Ile Ala Val Val Gly Ala Ser Gly Val Gly Lys Thr		
	50	55
Ala Leu Val Val Arg Phe Leu Xaa Lys Arg Phe Ile Gly Asp Tyr Glu		
	65	70
		75
		80

Gly Ala Ile Ile Glu Asn Met Ser Thr Lys Lys Leu Cys Ile Val Gly
 20 25 30

Gly Ile Leu Leu Val Phe Gln Ile Ile Ala Phe Leu Val Gly Gly Leu
 35 40 45

Ile Ala Pro Gly Pro Thr Thr Ala Val Ser Tyr Met Ser Val Lys Cys
 50 55 60

Val Asp Ala Arg Lys Asn His His Lys Thr Lys Trp Phe Val Pro Trp
 65 70 75 80

Gly Pro Asn His Cys Asp Lys Ile Arg Asp Ile Glu Glu Ala Ile Pro
 85 90 95

Arg Glu Ile Glu Ala Asn Asp Ile Val Phe Ser Val His Ile Pro Leu
 100 105 110

Pro His Met Glu Met Ser Pro Trp Phe Gln Phe Met Leu Phe Ile Leu
 115 120 125

Gln Leu Asp Ile Ala Phe Lys Leu Asn Asn Gln Ile Arg Glu Asn Ala
 130 135 140

Glu Val Ser Met Asp Val Ser Leu Ala Tyr Arg Asp Asp Ala Phe Ala
 145 150 155 160

Glu Trp Thr Glu Met Ala His Glu Arg Val Pro Arg Lys Leu Lys Cys
 165 170 175

Thr Phe Thr Ser Pro Lys Thr Pro Glu His Glu Gly Arg Tyr Tyr Glu
 180 185 190

Cys Asp Val Leu Pro Phe Met Glu Ile Gly Ser Val Ala His Lys Phe
 195 200 205

Tyr Leu Leu Asn Ile Arg Leu Pro Val Asn Glu Lys Lys Lys Ile Asn
 210 215 220

Val Gly Ile Gly Glu Ile Lys Asp Ile Arg Leu Val Gly Ile His Gln
 225 230 235 240

Asn Gly Gly Phe Thr Lys Val Trp Phe Ala Met Lys Thr Phe Leu Thr
 245 250 255

Pro Ser Ile Phe Ile Ile Met Val Trp Tyr Trp Arg Arg Ile Thr Met
 260 265 270

Met Ser Arg Pro Pro Val Leu Leu Glu Lys Val Ile Phe Ala Leu Gly
 275 280 285

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Ile Ser Met Thr Phe Ile Asn Ile Pro Val Glu Trp Phe Ser Ile Gly
 290                      295                      300

Phe Asp Trp Thr Trp Met Leu Leu Phe Gly Asp Ile Arg Gln Gly Ile
305                      310                      315                      320

Phe Tyr Ala Met Leu Leu Ser Phe Trp Ile Ile Phe Cys Gly Glu His
                      325                      330                      335

Met Met Asp Gln His Glu Arg Asn His Ile Ala Gly Tyr Trp Lys Gln
                      340                      345                      350

Val Gly Pro Ile Ala Val Gly Ser Phe Cys Leu Phe Ile Phe Asp Met
                      355                      360                      365

Cys Glu Arg Gly Val Gln Leu Thr Asn Pro Phe Tyr Ser Ile Trp Thr
370                      375                      380

Thr Asp Ile Gly Thr Glu Leu Ala Met Ala Phe Ile Ile Val Ala Gly
385                      390                      395                      400

Ile Cys Leu Cys Leu Tyr Phe Leu Phe Leu Cys Phe Met Val Phe Gln
                      405                      410                      415

Val Phe Arg Asn Ile Ser Gly Lys Gln Ser Ser Leu Pro Ala Met Ser
                      420                      425                      430

Lys Val Arg Arg Leu His Tyr Glu Gly Leu Ile Phe Arg Phe Lys Phe
                      435                      440                      445

Leu Met Leu Ile Thr Leu Ala Cys Ala Ala Met Thr Val Ile Phe Phe
                      450                      455                      460

Ile Val Ser Gln Val Thr Glu Gly His Trp Lys Trp Gly Gly Xaa Thr
465                      470                      475                      480

Val Gln Val Asn Ser Ala Phe Phe Thr Gly Ile Tyr Gly Met Trp Asn
                      485                      490                      495

Leu Tyr Val Phe Ala Leu Met Phe Leu Tyr Ala Pro Ser His Lys Asn
                      500                      505                      510

Tyr Gly Glu Asp Gln Ser Asn Gly Asp Leu Gly Val His Ser Gly Glu
                      515                      520                      525

Glu Leu Gln Leu Thr Thr Thr Ile Thr His Val Asp Gly Pro Thr Glu
                      530                      535                      540

Ile Tyr Lys Leu Thr Arg Lys Glu Ala Gln Glu
545                      550                      555

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790

<210> 828

<211> 292

<212> PRT

<213> Homo sapiens

<400> 828

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Leu Glu Gly Gly Thr Met Gln Glu Leu His Leu Leu Trp Trp Ala Leu
  1             5             10             15

Leu Leu Gly Leu Ala Gln Ala Cys Pro Glu Pro Cys Asp Cys Gly Glu
      20             25             30

Lys Tyr Gly Phe Gln Ile Ala Asp Cys Ala Tyr Arg Asp Leu Glu Ser
      35             40             45

Val Pro Pro Gly Phe Pro Ala Asn Val Thr Thr Leu Ser Leu Ser Ala
      50             55             60

Asn Arg Leu Pro Gly Leu Pro Glu Gly Ala Phe Arg Glu Val Pro Leu
      65             70             75             80

Leu Gln Ser Leu Trp Leu Ala His Asn Glu Ile Arg Thr Val Ala Ala
      85             90             95

Gly Ala Leu Ala Ser Leu Ser His Leu Lys Ser Leu Asp Leu Ser His
      100            105            110

Asn Leu Ile Ser Asp Phe Ala Trp Ser Asp Leu His Asn Leu Ser Ala
      115            120            125

Leu Gln Leu Leu Lys Met Asp Ser Asn Glu Leu Thr Phe Ile Pro Arg
      130            135            140

Asp Ala Phe Arg Ser Leu Arg Ala Leu Arg Ser Leu Gln Leu Asn His
      145            150            155            160

Asn Arg Leu His Thr Leu Ala Glu Gly Thr Phe Thr Pro Leu Thr Ala
      165            170            175

Leu Ser His Leu Gln Ile Asn Glu Asn Pro Phe Asp Cys Thr Cys Gly
      180            185            190

Ile Val Trp Leu Lys Thr Trp Ala Leu Thr Thr Ala Val Ser Ile Pro
      195            200            205

Glu Gln Asp Asn Ile Ala Cys Thr Ser Pro His Val Leu Lys Gly Thr
      210            215            220

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791

Pro Leu Ser Arg Leu Pro Pro Leu Pro Cys Ser Ala Pro Ser Val Gln
 225 230 235 240

Leu Ser Tyr Gln Pro Ser Gln Asp Gly Ala Glu Leu Arg Pro Gly Phe
 245 250 255

Val Leu Ala Leu His Cys Asp Val Asp Gly Gln Pro Ala Pro Ala Ala
 260 265 270

Ser Leu Ala His Pro Asp Thr Gln Trp His Cys Gly Asp His Gln Pro
 275 280 285

Gln Arg Gly His
 290

<210> 829

<211> 85

<212> PRT

<213> Homo sapiens

<400> 829

Lys Thr Gly Lys Arg Trp His Leu Gln Gly Asn Thr Arg Ala Ala Gln
 1 5 10 15

Lys Ser Cys Trp Asp Glu Glu Leu Gln Thr Cys Val Val Asp Phe Leu
 20 25 30

Ala Phe Cys Leu Phe Tyr Ser Gln Gly Trp Gly Ile Thr Thr Lys Glu
 35 40 45

Val Val Phe Trp Pro Gly Val Val Ala His Ala Cys Asn Pro Ser Thr
 50 55 60

Leu Gly Gly Arg Gly Arg Val Asp His Lys Val Arg Arg Ser Arg Pro
 65 70 75 80

Ser Trp Leu Thr Arg
 85

<210> 830

<211> 48

<212> PRT

<213> Homo sapiens

<400> 830

Asp Gly Ala Cys Ser Val Ala Gln Ala Gly Val Pro Trp His Asp Leu
 1 5 10 15

792

Gly Ser Leu Gln Ala Pro Pro Pro Gly Phe Thr Pro Phe Ser Cys Leu
20 25 30

Ser Leu Pro Ser Ser Trp Glu Tyr Arg Arg Pro Pro Pro Arg Leu Gly
35 40 45

<210> 831

<211> 47

<212> PRT

<213> Homo sapiens

<400> 831

Ala Thr Pro Gly Leu Phe Arg Ile Phe Ser Arg Asp Gly Phe Pro His
1 5 10 15

Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser Ser Asp Pro Pro Gly
20 25 30

Ser Ala Tyr Arg Ser Ala Glu Ile Pro Gly Val Ser His Arg Ala
35 40 45

<210> 832

<211> 28

<212> PRT

<213> Homo sapiens

<400> 832

Ser Ile Arg Leu Gly Leu Leu Lys Cys Arg Asp Tyr Arg His Tyr Pro
1 5 10 15

Leu Cys Pro Val Thr Ile Glu Ile Ile Thr Leu Gln
20 25

<210> 833

<211> 22

<212> PRT

<213> Homo sapiens

<400> 833

Phe Cys Ile Ser Arg Asp Gly Val Ser Pro Cys Trp Pro Gly Trp Ser
1 5 10 15

Gln Thr Pro Gly Leu Lys
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<210> 834
<211> 52
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<213> Homo sapiens

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Ser Gln Leu Leu Gly Xaa Leu Arg Gln Glu Asn Arg Leu Asn Pro Gly
1 5 10 15

Gly Gly Asp Xaa Ser Glu Pro Arg Ser His His Cys Thr Pro Val Trp
20 25 30

Gln Gln Arg Gln Asp Ser Ile Ser Lys Arg Lys Glu Lys Lys Thr Leu
35 40 45

Xaa Leu Tyr Ser
50

<210> 835
<211> 86
<212> PRT
<213> Homo sapiens

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<400> 835

795

Asn Ser Val Ser Thr Xaa Asp Thr Lys Asn Ser Gln Ala Trp Xaa Gln
1 5 10 15
Ala Pro Val Ile Pro Ala Thr Arg Glu Ala Lys Ala Gly Glu Leu Leu
20 25 30
Glu Leu Arg Gly Trp Arg Leu Gln Xaa Val Glu Ile Val Pro Leu His
35 40 45
Ser Ser Leu Gly Asn Arg Ala Arg Leu Cys Leu Xaa Lys Lys Xaa Xaa
50 55 60
Xaa Xaa Xaa Glu Lys Gln His Xaa Gly Val Ser Val Asn Leu Ser Ser
65 70 75 80
Ala Ala Leu Leu Ile Xaa
85

<210> 836

<211> 46

<212> PRT

<213> Homo sapiens

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 836

Leu Leu Glu Xaa Phe Xaa Ala His Arg Pro Gln Trp Glu Gly Val Val
1 5 10 15
Phe Pro Arg Glu Ser Val Thr Asp His Val Asn Xaa Leu Thr Pro Leu
20 25 30

Val Lys Pro Val Thr Glu Leu Tyr Leu Xaa Phe Ser Ser Leu
 35 40 45

<210> 837

<211> 129

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 837

Ile Ala Asn Ile Arg Asn Glu Arg Val Asp Ile Thr Thr Asp Pro Met
 1 5 10 15

Asp Ile Arg Arg Ile Ile Lys Glu Cys Ser Glu Gln Leu Tyr Ala His
 20 25 30

Ile Phe Asp Asn Leu Asp Glu Met Glu Gln Val Leu Glu Arg His Asn
 35 40 45

Leu Pro Lys Leu Thr Gln Glu Glu Ile Asp His Leu Asn Arg Pro Ile
 50 55 60

Ser Ile Leu Lys Phe Glu Ser Ile Ile Asn Asn Phe Xaa Lys Gln Lys
 65 70 75 80

Ala Leu Gly Pro Asp Val Phe Ala Gly Glu Phe Tyr Gln Thr Tyr Lys
 85 90 95

Glu Asp Ile Ile Pro Ile Ile Tyr Asn Leu Phe Trp Arg Ile Glu Ala
 100 105 110

Glu Gly Asn Thr Phe Trp Leu Ile Leu Gly Gly Gln Xaa Tyr Ser Asn
 115 120 125

Thr

<210> 838
<211> 76
<212> PRT
<213> Homo sapiens

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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (60)
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<400> 838
Tyr Thr Leu Leu Glu Leu Glu Leu Pro Arg Leu Leu Ala Pro Xaa Leu
1 5 10 15
Pro Ser Asn Gly Ser Ser Leu Lys Asp Leu Lys Trp Thr His Ser Asn
20 25 30
Tyr Arg Ala Ser Lys Glu Ser Cys Ile Val Ile Phe Arg His Tyr Leu
35 40 45
Pro Gly Ser Gly Met Gly Asn Leu Arg Xaa Cys Xaa Leu Pro Trp Met
50 55 60
Trp Glu Pro Phe Leu Arg Ser Leu Ser Gly Ile Gly
65 70 75

<210> 839
<211> 102
<212> PRT
<213> Homo sapiens

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<223> Xaa equals any of the naturally occurring L-amino acids

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<400> 839

Thr	Thr	Ile	Arg	Ile	Ser	Ile	Thr	Ser	Glu	Arg	Ser	Thr	Pro	Leu	Thr
1				5					10					15	

Thr	Leu	Leu	Val	Ser	Thr	Thr	Leu	Pro	Thr	Ser	Phe	Pro	Gly	Ala	Ser
			20					25					30		

Ile	Ala	Ser	Thr	Pro	Pro	Leu	Asp	Thr	Ser	Thr	Thr	Phe	Thr	Pro	Ser
		35					40					45			

Thr	Asp	Thr	Xaa	Ser	Thr	Pro	Thr	Ile	Pro	Val	Xaa	Thr	Thr	Ile	Ser
	50					55					60				

Val	Ser	Xaa	Ile	Thr	Glu	Gly	Ser	Thr	Pro	Gly	Thr	Thr	Ile	Phe	Ile
65					70					75				80	

Pro	Ser	Thr	Pro	Val	Thr	Ser	Ser	Thr	Ala	Asp	Asp	Phe	Pro	Ala	Thr
				85					90					95	

Thr	Gly	Ala	Xaa	Ser	Thr
				100	

<210> 840

<211> 81

<212> PRT

<213> Homo sapiens

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<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

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799

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 840

Pro	Arg	Ser	Pro	Ser	Gly	Ser	Ala	Met	Pro	Cys	Ser	Glu	Glu	Thr	Pro
1				5					10					15	

Ala	Ile	Ser	Pro	Ser	Lys	Arg	Ala	Arg	Pro	Ala	Glu	Val	Gly	Gly	Met
			20					25					30		

Gln	Leu	Arg	Phe	Ala	Arg	Leu	Ser	Glu	His	Ala	Thr	Ala	Pro	Thr	Arg
		35					40					45			

Gly	Ser	Ala	Arg	Ala	Ala	Gly	Tyr	Asp	Leu	Tyr	Ser	Ala	Tyr	Asp	Tyr
	50					55						60			

Thr	Ile	Pro	Pro	Met	Glu	Lys	Xaa	Pro	Pro	Xaa	Xaa	Asn	Ala	Xaa	Asp
65					70					75					80

Ser

<210> 841

<211> 55

<212> PRT

<213> Homo sapiens

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<400> 841

Gln	Ala	Arg	Val	Gln	Trp	Leu	Phe	Thr	Asp	Ala	Asn	Ile	Val	His	Cys
1				5					10					15	

Ser	Leu	Gln	Leu	Leu	Ala	Ser	Ser	Asp	Pro	Pro	Val	Ser	Thr	Ser	Gln
			20					25					30		

Val	Gly	Leu	Gln	Ala	Cys	Ala	Asp	Asp	Ala	Gln	Xaa	Pro	Glu	Leu	Cys
		35						40				45			

800

Leu Ser Leu Ser Pro Thr Thr
50 55

<210> 842
<211> 99
<212> PRT
<213> Homo sapiens

<400> 842
Leu Tyr Gly Cys Glu Lys Thr Thr Glu Gly Gly Gln Pro Leu Phe Gln
1 5 10 15
Pro Leu Ala Gly Phe His His Cys Cys Ser Cys Ser Thr Ala Leu Phe
20 25 30
Arg Thr Gln Thr Thr Ala Ala Ala Val Pro Arg Met Val Ile Arg Val
35 40 45
Tyr Ile Ala Ser Ser Ser Gly Ser Thr Ala Ile Lys Lys Lys Gln Gln
50 55 60
Asp Val Leu Gly Phe Leu Glu Ala Asn Lys Ile Gly Phe Glu Glu Lys
65 70 75 80
Asp Ile Ala Ala Asn Glu Glu Asn Arg Lys Trp Met Arg Glu Asn Val
85 90 95
Pro Gly Lys

<210> 843
<211> 66
<212> PRT
<213> Homo sapiens

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<221> SITE

<222> (52)

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<400> 843

Ser	Arg	Lys	Val	Pro	Thr	Phe	Xaa	Thr	Pro	Trp	Pro	Asp	Phe	Val	Pro
1				5				10					15		

Arg	Ala	Gly	Gly	Glu	Asn	Tyr	Lys	Glu	Phe	Ser	Glu	Leu	Leu	Pro	Asn
		20						25					30		

Arg	Gln	Gly	Leu	Lys	Lys	Ala	Asp	Xaa	Ser	Phe	Trp	Ser	Lys	Tyr	Ile
		35					40						45		

Ser	Ser	Leu	Xaa	Thr	Ser	Ala	Asp	Gly	Ala	Lys	Gly	Gly	Ala	Val	Ser
	50						55					60			

Arg	Glu
65	

<210> 844

<211> 144

<212> PRT

<213> Homo sapiens

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<221> SITE

<222> (136)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 844

Phe	Val	Glu	Gly	Val	Asn	Lys	Lys	Leu	Gly	Leu	Leu	Gly	Asp	Ser	Leu
1				5					10					15	

Asp	Ile	Phe	Lys	Gly	Ile	Pro	Phe	Ala	Ala	Pro	Thr	Lys	Ala	Leu	Glu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

802

	20		25		30										
Asn	Pro	Gln	Pro	His	Pro	Gly	Trp	Gln	Gly	Thr	Leu	Lys	Ala	Lys	Asn
	35					40						45			
Phe	Lys	Lys	Arg	Cys	Leu	Gln	Ala	Thr	Ile	Thr	Gln	Asp	Ser	Thr	Tyr
	50					55						60			
Gly	Asp	Glu	Asp	Cys	Leu	Tyr	Leu	Asn	Ile	Trp	Val	Pro	Gln	Gly	Arg
	65					70				75					80
Lys	Gln	Val	Ser	Arg	Asp	Leu	Pro	Val	Met	Ile	Trp	Ile	Tyr	Gly	Gly
				85					90					95	
Ala	Phe	Leu	Met	Gly	Ser	Gly	His	Gly	Ala	Asn	Phe	Leu	Asn	Xaa	Tyr
			100					105						110	
Leu	Tyr	Asp	Gly	Xaa	Glu	Ile	Ala	Thr	Arg	Gly	Asn	Val	Ile	Val	Val
		115					120					125			
Thr	Phe	Asn	Tyr	Pro	Cys	Xaa	Xaa	Pro	Trp	Val	Leu	Thr	Leu	Gly	Thr
		130					135					140			

<210> 845

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<400> 845

His Ser Val Leu Pro Pro Leu Arg Arg Arg Val Ser Leu Pro Val Ala
1 5 10 15

Met Glu Glu Glu Ile Ala Ala Leu Val Ile Asp Asn Gly Ser Gly Met
20 25 30

Cys Lys Ala Gly Phe Ala Gly Glu Arg Arg Ser Pro Ser Arg Val Ser
35 40 45

Phe His Arg Arg Ala Pro Gln Asp Thr Arg Ala Ser Trp Trp Gly Met
50 55 60

Gly Gln Lys Gly Leu Leu Leu Xaa Ala Xaa Lys Ala Gln Asn Lys Xaa
65 70 75 80

Xaa Leu Pro

<210> 846

<211> 168

<212> PRT

<213> Homo sapiens

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<222> (166)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 846

Glu Lys Gln Val Arg Val Leu Thr Asp Ala Val Asp Asp Ile Thr Ser
1 5 10 15

Ile Asp Asp Phe Leu Ala Val Ser Glu Asn His Ile Leu Glu Asp Val
20 25 30

Asn Lys Cys Val Ile Ala Leu Gln Glu Lys Asp Xaa Asp Gly Leu Asp
35 40 45

Arg Thr Ala Gly Ala Ile Arg Gly Arg Ala Ala Arg Val Ile His Val
50 55 60

Val Thr Ser Glu Met Asp Asn Tyr Glu Pro Gly Val Tyr Thr Glu Lys
65 70 75 80

Val Leu Glu Ala Thr Lys Leu Leu Ser Asn Thr Val Met Pro Arg Arg
85 90 95

Ser Gln Pro Xaa Lys Pro Ser Ala Arg Thr Leu Pro Ser Pro Trp Met
100 105 110

Arg Xaa Ser Leu Ser Met Leu Pro Ala Trp Tyr Met Met Ala Ser Gly
115 120 125

Asp Ile Arg Lys Ala Val Leu Xaa Ile Arg Xaa Pro Leu Arg Ser Trp
130 135 140

Met Thr Leu Thr Leu Arg Gln Glu Asp Leu Met Ser Glu Ala Gly Arg
145 150 155 160

Ala Ser Arg Gln Lys Xaa Ile Ser
165

<210> 847

<211> 109

<212> PRT

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<400> 847

Gln Asn Ser Gly Cys Leu Thr Met Ala Trp Ile Pro Leu Leu Leu Pro
1 5 10 15

Leu Leu Thr Leu Cys Thr Gly Ser Glu Ala Ser Tyr Glu Leu Thr Gln
20 25 30

Pro Pro Ser Val Ser Val Ser Pro Gly Gln Thr Ala Arg Ile Thr Cys
35 40 45

Ser Gly Asp Ala Leu Pro Lys Gln Tyr Ala Tyr Trp Tyr Gln Gln Arg
50 55 60

Pro Gly Gln Ala Pro Val Gln Val Ile Tyr Lys Asp Ser Glu Xaa Ala
65 70 75 80

Ser Arg Ile Pro Glu Arg Ile Ser Gly Ser Ser Ser Xaa Thr Thr Val
85 90 95

Thr Leu Thr Ile Gln Trp Gly Pro Ser Lys Lys Gln Ser
100 105

<210> 848

<211> 145

<212> PRT

<213> Homo sapiens

<220>

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<400> 848

Xaa Lys Phe Ser Xaa Glu Glu Asp Gly Arg Xaa Ser Asp Xaa Glu Gly
1 5 10 15

Ala Glu Gly His Xaa Asp Ser Gln Ser Ala Ser Gly Glu Glu Arg Pro
20 25 30

Pro Glu Ala Asp Gly Lys Lys Gly Asn Ser Pro Asn Ser Glu Pro Pro
35 40 45

Thr Pro Lys Xaa Ala Trp Ala Glu Thr Ser Arg Pro Pro Glu Thr Glu
50 55 60

Pro Gly Pro Pro Ala Pro Lys Xaa Pro Leu Pro Pro Pro Xaa Arg Gly
65 70 75 80

Pro Ala Gly Asn Trp Gly Pro Pro Gly Asp Tyr Pro Asp Arg Xaa Gly
85 90 95

Leu Pro Ala Ser Pro Gln His Leu Glu Val Glu Asp Glu Ala Trp Arg
100 105 110

His Asp Glu Ser Xaa Arg Leu Leu Asn Phe Leu Gly Ile Gly Arg Xaa
115 120 125

Arg Arg Arg Xaa Glu Glu Lys Ala Ala Val Xaa Xaa Ser Ser Arg Gly
130 135 140

Gln

145

<210> 849

<211> 109

<212> PRT

<213> Homo sapiens

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 849

Xaa Val Arg Leu Leu Val Xaa Val Arg Asn Ser Arg Val Asp Pro Leu
1 5 10 15

Val Arg Pro Asn Met Gly Asp Ser Ala Val Xaa Thr His Trp Glu Pro
20 25 30

Tyr Thr Thr Glu Xaa Xaa Gly Tyr Leu Glu Ile Thr Lys Xaa Met Gly
35 40 45

Ser Xaa Ser Met Lys Trp Ser Leu Xaa Thr Asn Phe Leu Arg Tyr Trp
50 55 60

Thr Leu Xaa Tyr Leu Ala Leu Pro Thr Val Asn Arg Pro Xaa Xaa His
65 70 75 80

Pro Cys Ala Pro His Arg Gly Thr Pro Xaa Xaa Leu Pro Cys Ser Pro
85 90 95

Xaa Gly Glu Ser Glu Asp Cys Pro His Ala Gly His Arg
100 105

<210> 850

<211> 200

<212> PRT

<213> Homo sapiens

<220>

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<222> (140)

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<400> 850

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Leu Asp Ile Thr Val Met Val Phe His His Phe Gly Lys Asp Phe Pro
 1             5             10             15

Lys Ser Glu Lys Leu Ser Pro Asp Ala Phe Ile Gln Met Ala Leu Gln
      20             25             30

Leu Ala Tyr Tyr Arg Ile Tyr Gly Gln Ala Cys Ala Thr Tyr Glu Ser
      35             40             45

Ala Ser Leu Arg Met Phe His Leu Gly Arg Thr Asp Thr Ile Arg Ser
      50             55             60

Ala Ser Met Asp Ser Leu Thr Phe Val Lys Ala Met Asp Asp Ser Ser
      65             70             75             80

Val Thr Glu His Gln Lys Val Glu Leu Leu Arg Lys Ala Val Gln Ala
      85             90             95

His Arg Gly Tyr Thr Asp Arg Ala Ile Arg Gly Glu Ala Phe Asp Arg
      100            105            110

His Leu Leu Gly Leu Lys Leu Gln Ala Ile Glu Asp Leu Val Ser Met
      115            120            125

Pro Asp Ile Phe Met Asp Thr Phe Tyr Ala Ile Xaa Met His Phe Thr
      130            135            140

Ser Ser Gln Pro Gly Pro Ala Arg Gln Met Cys Met Ser Ser Gly Pro
      145            150            155            160

Trp Ser Arg Arg Leu Arg Xaa Xaa Tyr Asn Pro Trp Arg Pro His Asn
      165            170            175

Phe Ser Leu Xaa Ala Thr Gln Leu Arg Gly Asp Asn Ala Ala Ala Gly
      180            185            190

His Thr Glu Lys Ala Leu Glu Ser
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<210> 851

<211> 144
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<400> 851
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 1 5 10 15
 Ser His Ala Gln Gln Tyr Arg Trp Tyr Gln Met Leu Tyr Gln Ala Gly
 20 25 30
 Val Phe Ala Ser Arg Ser Ser Leu Arg Cys Cys Arg Ile Arg Phe Thr
 35 40 45
 Trp Ala Leu Ala Leu Leu Gln Cys Leu Asn Leu Val Phe Leu Leu Ala
 50 55 60
 Asp Val Trp Phe Gly Phe Leu Pro Ser Ile Tyr Leu Val Phe Leu Ile
 65 70 75 80
 Ile Leu Tyr Glu Gly Leu Leu Gly Gly Ala Leu Thr Val Asn Thr Phe
 85 90 95
 His Asn Ile Ala Leu Glu Thr Ser Asp Glu His Arg Glu Phe Ala Met
 100 105 110
 Gly Gly Asn Cys Ile Leu Lys Asn Gly Asp Xaa Leu Ser Gly Ser Gly
 115 120 125
 Xaa Ala Leu Xaa Ile Pro Trp Gln Ser Leu Lys Ser Gly Leu Arg Glu
 130 135 140

<210> 852
<211> 135
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<400> 852

Thr	Ser	Gly	Ser	Lys	Xaa	Phe	Gly	Gln	Xaa	Gly	Leu	Val	Ser	His	Xaa
1				5					10					15	

Arg	Thr	Thr	Thr	Arg	Pro	Ser	Pro	Tyr	Asp	Asp	Leu	Thr	Tyr	Gly	Glu
			20					25					30		

Gly	Glu	Glu	Asn	Pro	Asp	Gln	Xaa	Thr	Asp	Pro	Gly	Ala	Gly	Ala	Glu
		35					40					45			

Ile	Pro	Thr	Ser	Thr	Xaa	Asp	Thr	Ser	Asn	Ser	Ser	Asn	Xaa	Ala	Pro
	50					55					60				

Pro	Pro	Gly	Glu	Gly	Ala	Asp	Asp	Leu	Glu	Gly	Glu	Phe	Thr	Glu	Glu
65					70					75				80	

Thr	Ile	Arg	Asn	Leu	Asp	Xaa	Asn	Tyr	Tyr	Asp	Pro	Tyr	Tyr	Asp	Pro
			85						90					95	

Thr	Ser	Ser	Pro	Val	Gly	Asp	Arg	Xaa	Gly	Asn	Ala	Gly	Glu	Pro	Gly
			100					105					110		

Tyr	His	Leu	Xaa	Arg	Asp	Leu	Xaa	Thr	Ser	Gly	Arg	Glu	Arg	Pro	Lys
		115					120					125			

Xaa	Gly	Thr	Ile	Asp	Phe	Glu
	130				135	

<210> 853

<211> 70

<212> PRT

<213> Homo sapiens

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<400> 853
Ala Xaa Leu Ile Arg Xaa Arg Xaa Gly Xaa Ser Gln Ala Thr Leu Xaa

815

1 5 10 15
Val Thr Thr Thr Ser Thr Ser Tyr Arg Xaa Gln Pro Met Xaa Phe Val
 20 25 30
Ile Xaa Phe Phe Ile Val Xaa Thr Leu Ile Xaa Gly Gly Phe Gly Gln
 35 40 45
Leu Thr Ser Ser Leu Ile Met Gly Ala Pro Ile Trp Gly Leu Pro Ala
 50 55 60
Xaa Asn Asn Ile Ser Phe
65 70

<210> 854

<211> 137

<212> PRT

<213> Homo sapiens

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<222> (7)

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<400> 854
Pro Gln Ser Gln Gly Leu Xaa Pro Phe Gly Gln Xaa Xaa Val Lys Glu
1 5 10 15
Leu Asn Arg Xaa Gly Val Leu Ile Asp Leu Ala His Val Ser Val Ala
20 25 30
Thr Met Lys Ala Thr Leu Gln Leu Ser Arg Ala Pro Xaa Ile Phe Ser
35 40 45
His Ser Ser Ala Tyr Ser Val Cys Ala Ser Arg Arg Asn Val Pro Asp

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      50              55              60
Asp Val Leu Arg Leu Val Lys Xaa Thr Asp Ser Leu Val Met Xaa Asn
 65              70              75              80

Phe Tyr Asn Asn Tyr Ile Ser Cys Thr Asn Lys Ala Asn Leu Ser Gln
              85              90              95

Val Ala Asp His Leu Asp His Ile Lys Glu Val Ala Xaa Ala Arg Xaa
      100              105              110

Val Xaa Phe Gly Xaa Asp Phe Asp Gly Gly Pro Arg Val Pro Glu Xaa
      115              120              125

Leu Xaa Asp Ala Xaa Ser Ile Gln Thr
      130              135

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<210> 855

<211> 84

<212> PRT

<213> Homo sapiens

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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (74)

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<400> 855

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Gly Asp Ile Arg Ser Gly Cys Asn Gly Asp Ser Gly Gly Pro Leu Asn
 1              5              10              15

```

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Cys Pro Thr Xaa Asp Gly Gly Trp Gln Val His Gly Val Thr Xaa Phe
      20              25              30

```

```

Val Ser Ala Phe Gly Cys Asn Thr Arg Arg Lys Pro Thr Val Phe Thr
      35              40              45

```

```

Arg Val Ser Ala Phe Ile Asp Trp Ile Glu Glu Thr Ile Ala Ser His
      50              55              60

```

818

Leu Glu Thr Lys Gly Pro Pro Trp Gln Xaa Leu Asn Arg Ser His Ile
 65 70 75 80

Leu Glu Ile Lys

<210> 856

<211> 117

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (106)

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<400> 856

Ala Arg Ala Gln Asn Asp Leu Glu Gln Val Leu Arg Gln Ile Gly Asp
 1 5 10 15

Lys Asp Gln Lys Ile Gln Asn Leu Glu Ala Leu Leu Gln Lys Ser Lys
 20 25 30

Glu Asn Ile Ser Leu Leu Glu Lys Glu Arg Glu Asp Leu Tyr Ala Lys
 35 40 45

Ile Gln Ala Gly Glu Gly Glu Thr Ala Val Leu Asn Gln Leu Gln Glu
 50 55 60

Lys Asn His Thr Leu Gln Glu Gln Val Thr Gln Leu Thr Glu Lys Leu
 65 70 75 80

Glu Glu Ser Val Arg Lys Phe Ile Asn Lys Pro Arg Glu Asn Leu His
 85 90 95

Gly Pro Gly Thr Arg Ala Glu Gly His Xaa Leu Glu Leu Ala Gln Asp
 100 105 110

Arg Val Pro Phe Pro
 115

<210> 857

<211> 62

<212> PRT

<213> Homo sapiens

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<222> (2)
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<400> 857
Gly Xaa Xaa Glu Ala Gln Thr Ser Xaa Pro Trp Asn Leu His Xaa Xaa
1 5 10 15
His His Ser Leu Ser Pro Ile Val Leu Met Gly Ala Leu Xaa Phe Pro
20 25 30

Val	Pro	Ser	Phe	Leu	Pro	Pro	Gly	Leu	Pro	Xaa	Asn	Xaa	Ala	Ala	Tyr
		35					40					45			

Ser Xaa Pro Lys Leu Arg Gly Ser Phe Pro Pro Ala Ser Leu
50 55 60

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<210> 858
<211> 133
<212> PRT
<213> Homo sapiens
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<220>
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<223> Xaa equals any of the naturally occurring L-amino acids
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<220>  
<221> SITE  
<222> (132)  
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (133)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 858
Asn Ser Ala Arg Gly Asp Lys Phe Phe Thr Ser His Asn Gly Met Gln
1 5 10 15

Phe Ser Thr Trp Asp Asn Asp Asn Asp Lys Phe Glu Gly Asn Cys Ala
20 25 30

Glu Gln Asp Gly Ser Gly Trp Trp Met Asn Lys Cys His Ala Gly His
 35 40 45
 Leu Asn Gly Val Tyr Tyr Gln Gly Gly Thr Tyr Ser Lys Ala Ser Thr
 50 55 60
 Pro Asn Gly Tyr Asp Asn Gly Ile Ile Trp Ala Thr Trp Lys Thr Arg
 65 70 75 80
 Trp Tyr Ser Met Lys Lys Thr Thr Met Glu Gly Lys Ser His Ser Thr
 85 90 95
 Asp Ser Gln Leu Glu Glu Gly Gln Gln His His Leu Gly Gly Ala Lys
 100 105 110
 Gln Val Arg Pro Glu His Xaa Ala Glu Thr Gly Xaa Xaa Ser Xaa Tyr
 115 120 125
 Pro Glu Gly Xaa Xaa
 130

<210> 859

<211> 162

<212> PRT

<213> Homo sapiens

<400> 859

Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Glu Ser Gly Arg Lys
 1 5 10 15
 Val Gln Ser Gly Asn Ile Asn Ala Ala Lys Thr Ile Ala Asp Ile Ile
 20 25 30
 Arg Thr Cys Leu Gly Pro Lys Ser Met Met Lys Met Leu Leu Asp Pro
 35 40 45
 Met Gly Gly Ile Val Met Thr Asn Asp Gly Asn Ala Ile Leu Arg Glu
 50 55 60
 Ile Gln Val Gln His Pro Ala Ala Lys Ser Met Ile Glu Ile Ser Arg
 65 70 75 80
 Thr Gln Asp Glu Glu Val Gly Asp Gly Thr Thr Ser Val Ile Ile Leu
 85 90 95
 Ala Gly Glu Met Leu Ser Val Ala Glu His Phe Leu Glu Gln Gln Met
 100 105 110
 His Pro Thr Val Val Ile Ser Ala Tyr Arg Lys Ala Leu Asp Asp Met

822

115 120 125
 Ile Ser Thr Leu Lys Lys Ile Ser Ile Pro Val Asp Ile Ser Asp Ser
 130 135 140
 Asp Met Met Leu Asn Ile Ile Asn Ser Ser Ile Thr Thr Lys Gly Ile
 145 150 155 160
 Ser Arg

<210> 860
 <211> 89
 <212> PRT
 <213> Homo sapiens

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<220>
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<400> 860
 Arg Met Thr Ser Arg Lys Lys Val Leu Leu Lys Val Ile Ile Leu Gly
 1 5 10 15
 Asp Ser Gly Val Gly Lys Thr Ser Leu Met Asn Gln Tyr Val Asn Lys
 20 25 30
 Lys Phe Ser Asn Gln Tyr Lys Ala Thr Ile Gly Ala Asp Phe Leu Thr
 35 40 45
 Lys Asp Val Met Val Asp Asp Arg Leu Val Thr Met Gln Ile Trp Gly
 50 55 60
 His Ser Arg Thr Gly Thr Val Pro Xaa Ser Arg Cys Gly Leu Leu Gln
 65 70 75 80
 Arg Cys Lys Leu Leu Arg Xaa Gly Ile
 85

<210> 861
 <211> 40

<212> PRT

<213> Homo sapiens

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<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 861

Ile	Pro	Gly	Xaa	Ile	Xaa	Val	His	Thr	Arg	Phe	Gln	Met	Pro	Asp	Gln
1				5					10					15	

Gly	Ile	Thr	Ser	Ala	Asp	Asp	Phe	Phe	Gln	Gly	Thr	Lys	Ala	Ala	Leu
			20					25					30		

Ala	Gly	Gly	Thr	Thr	Met	Asn	His
		35				40	

<210> 862

<211> 123

<212> PRT

<213> Homo sapiens

<400> 862

Lys	His	Lys	Arg	Glu	Ile	Tyr	Asp	Arg	Tyr	Gly	Arg	Glu	Gly	Leu	Thr
1				5					10					15	

Gly	Thr	Gly	Thr	Gly	Pro	Ser	Arg	Ala	Glu	Ala	Gly	Ser	Gly	Gly	Pro
			20					25					30		

Gly	Phe	Thr	Phe	Thr	Phe	Arg	Ser	Pro	Glu	Glu	Val	Phe	Arg	Glu	Phe
		35				40						45			

Phe	Gly	Ile	Gly	Asp	Pro	Phe	Ala	Glu	Leu	Phe	Asp	Asp	Leu	Gly	Pro
	50					55					60				

Phe	Ser	Arg	Ala	Ser	Arg	Thr	Gly	Phe	Pro	Thr	Leu	Lys	Pro	Leu	Leu
65				70					75					80	

Tyr	Phe	Ser	Ser	Ser	Phe	Pro	Gly	His	Pro	Ile	Leu	Leu	Leu	Ile	Phe
				85				90						95	

Ser	Phe	Asn	Pro	Gly	Leu	Val	Leu	Ser	Leu	Cys	Phe	Tyr	Ser	Thr	Pro
			100					105						110	

824

Leu Ser Lys Glu Ala His Pro His Pro Lys Ser
 115 120

<210> 863
 <211> 99
 <212> PRT
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<400> 863
 Arg Glu Met Leu Thr His Arg Asn Gly Leu Val Lys Lys Gly Lys Glu
 1 5 10 15

Gln Asn Thr Gln Arg Ser Phe Phe Leu Arg Met Lys Cys Thr Leu Thr
 20 25 30

Ser Arg Gly Arg Thr Met Asn Ile Lys Ser Ala Thr Trp Lys Val Leu
 35 40 45

His Cys Thr Gly His Ile His Val Tyr Asp Thr Asn Ser Asn Gln Pro
 50 55 60

Gln Cys Gly Tyr Lys Lys Pro Pro Met Thr Cys Leu Xaa Leu Ile Xaa
 65 70 75 80

Glu Pro Ile Pro His Pro Ser Xaa Ile Glu Xaa Pro Leu His Thr Lys
 85 90 95

Thr Phe Leu

<210> 864
<211> 99
<212> PRT
<213> Homo sapiens

<220>
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<400> 864
Arg Val Pro Ala Gln Leu Leu Gly Leu Leu Leu Leu Trp Leu Pro Gly
1 5 10 15
Ala Glu Cys Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala
20 25 30
Ser Val Gly Asp Arg Ile Thr Xaa Thr Cys Arg Ala Ser Gln Xaa Ile
35 40 45
Glu Asn Trp Leu Ala Trp Tyr Gln Gln Xaa Pro Gly Lys Pro Pro Lys
50 55 60
Leu Leu Leu Ile Ser Asp Ala Ser Ser Leu Xaa Ser Gly Val Pro Ser
65 70 75 80
Arg Phe Ser Gly Met Xaa Leu Gly Arg Asn Ser Leu Ser Pro Phe Pro

826

85

90

95

Ala Cys Ser

<210> 865

<211> 96

<212> PRT

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<222> (79)

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<222> (89)

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<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 865

Val	Gln	Met	Gln	Val	Gln	Asp	Ile	Leu	Glu	Gln	Asn	Glu	Ala	Leu	Lys
1				5				10						15	

Ala	Gln	Ile	Gln	Gln	Phe	His	Ser	Gln	Ile	Ala	Ala	Gln	Thr	Xaa	Ala
			20					25					30		

Ser	Val	Leu	Ala	Glu	Glu	Leu	His	Lys	Val	Ile	Ala	Glu	Lys	Asp	Lys
		35					40					45			

Gln	Ile	Lys	Gln	Thr	Glu	Asp	Ser	Leu	Thr	Ser	Glu	Arg	Asp	Arg	Leu
	50					55					60				

Thr	Ser	Lys	Glu	Glu	Glu	Leu	Lys	Asp	Ile	Gln	Asn	Met	Asn	Xaa	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

827

65 70 75 80
Leu Lys Ala Glu Val Gln Lys Leu Xaa Ala Leu Xaa Xaa Glu Gln Ala
 85 90 95

<210> 866

<211> 79

<212> PRT

<213> Homo sapiens

<400> 866

Asp Tyr Arg Val His Ile Ile Ser Phe Lys Asp Pro Asn Pro Met His
1 5 10 15

Ile Asp Ala Thr Phe Asn Ile Ile Gly Pro Gly Ile Val Leu Ser Asn
20 25 30

Pro Asp Arg Pro Cys His Gln Ile Asp Leu Phe Lys Lys Ala Gly Trp
35 40 45

Thr Ile Ile Thr Pro Pro Thr Pro Ile Ile Pro Asp Asp His Pro Leu
50 55 60

Trp Asp Val Ile Gln Met Ala Phe His Glu Cys Leu Asn Ala Arg
65 70 75

<210> 867

<211> 119

<212> PRT

<213> Homo sapiens

<220>

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<222> (9)

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<222> (31)

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<400> 867
Gln Lys Xaa Ala Thr Lys Arg Lys Xaa Val Ala Cys Arg Tyr Arg Ser
1 5 10 15
Gly Ile Pro Gly Ser Thr His Ala Ser Ala Trp Ala Arg Thr Xaa Pro
20 25 30
Arg Arg Arg Ala Xaa Gly Trp Gly Ala Xaa Trp Ala Arg Ser Gln Gly
35 40 45

Leu Asp Pro Thr Gly Pro Cys Xaa Xaa Asp Xaa Pro Glu Xaa Val Arg
50 55 60

Trp Xaa Pro Ser Xaa Ala Val Cys Val Asp Val Ile His Thr Tyr Ser
65 70 75 80

Ser Pro Ile Xaa Pro Pro Arg Cys Phe Arg Met Thr Gln Xaa Val Xaa
85 90 95

His Leu Asp Phe Xaa Pro Xaa Gly Arg Lys Asp Xaa Pro Xaa Val Lys
100 105 110

Xaa Cys Ser Xaa His His Xaa
115

<210> 868
<211> 178
<212> PRT
<213> Homo sapiens

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<400> 868

833

Gly Glu Thr Glu Gly Thr Gly Asp Ser Gly Leu Arg Ala Ala Pro Gly
 1 5 10 15
 Gly Leu Lys Asn Arg Arg Gln Pro Arg Arg Trp Ser Pro Ile Pro Gly
 20 25 30
 Tyr Ala Leu Gly Ser Glu Lys Ala Ala Ala Gly Gly His Ala Arg Gly
 35 40 45
 Gly Xaa Arg Gly Met Ala Ala Val Trp Gln Gln Val Leu Ala Val Asp
 50 55 60
 Ala Ser Phe Gly Arg Ser Ile Ser Ala Ala Gln Pro Ala Ala Ala Gly
 65 70 75 80
 Xaa Met Pro Arg Val Gly Thr Pro Ser Ala Ala Ser Gly Xaa Pro Glu
 85 90 95
 Ala Ser Gly Ala Xaa Cys Trp Ala Xaa Xaa Thr Xaa Pro Leu Xaa Xaa
 100 105 110
 Lys Glu Cys Ser Val Pro Ile Thr Thr Ala Ser Ser Gly Ser Xaa Arg
 115 120 125
 Thr Tyr Ser Xaa Xaa Gly Trp Lys Asp Xaa Gly Arg Xaa Ile Pro Xaa
 130 135 140
 Xaa Pro Xaa Gly Ala Arg Gly Ala Xaa Ser Phe Pro Phe Gln Lys Lys
 145 150 155 160
 Xaa Xaa Pro Xaa Xaa Gly Gly Gly Gly Xaa Xaa Xaa Asn Arg Gly Pro
 165 170 175
 Ser Xaa

<210> 869

<211> 38

<212> PRT

<213> Homo sapiens

<400> 869

Val Asn Pro Lys Tyr Ile Val Leu Glu Ser Asp Phe Thr Asn Asn Val
 1 5 10 15
 Val Arg Cys Asn Ile His Tyr Thr Gly Arg Tyr Val Ser Ala Thr Asn
 20 25 30
 Cys Lys Ile Val Gln Ser

35

<210> 870

<211> 119

<212> PRT

<213> Homo sapiens

<220>

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<222> (13)

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<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 870

Gly	Lys	Lys	Arg	Gly	Phe	Ala	Phe	Val	Thr	Phe	Asp	Xaa	His	Asp	Ser
1				5					10					15	

Val	Asp	Lys	Ile	Val	Ile	Gln	Lys	Tyr	His	Thr	Val	Asn	Gly	His	Asn
			20					25					30		

Cys	Glu	Val	Arg	Lys	Ala	Leu	Ser	Lys	Gln	Glu	Met	Ala	Ser	Ala	Ser
			35				40					45			

Ser	Ser	Gln	Arg	Xaa	Arg	Ser	Gly	Ser	Gly	Asn	Phe	Gly	Gly	Gly	Arg
		50				55					60				

Gly	Ser	Gly	Phe	Gly	Gly	Asn	Asp	Asn	Phe	Gly	Arg	Gly	Gly	Asn	Phe
65				70						75				80	

Ser	Gly	Arg	Gly	Gly	Phe	Gly	Gly	Ser	Arg	Gly	Gly	Gly	Gly	Tyr	Gly
			85						90					95	

Gly	Ser	Gly	Asp	Gly	Tyr	Asn	Gly	Phe	Gly	Asn	Asp	Gly	Ser	Asn	Phe
			100					105					110		

Gly	Lys	Trp	Trp	Lys	Leu	Gln
						115

<210> 871

<211> 113

<212> PRT

<213> Homo sapiens

<220>
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<220>
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<222> (112)
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<400> 871
Ala Arg Gly Thr Leu Leu Leu Ser Thr Leu Val Ala Gly Ala Leu Ser
1 5 10 15
Cys Gly Val Ser Thr Tyr Ala Pro Asp Met Ser Arg Met Leu Gly Gly
20 25 30
Glu Glu Ala Arg Pro Asn Ser Trp Pro Trp Gln Val Ser Leu Gln Tyr
35 40 45
Ser Ser Asn Gly Gln Trp Tyr His Xaa Cys Gly Gly Ser Leu Asp Ser
50 55 60
Gln Gln Leu Gly Pro Xaa Gly Cys Pro Leu His Gln Phe Leu Arg Asp
65 70 75 80
Leu Pro Arg Gly Cys Trp Xaa Ser Met Asn Leu Leu Arg Trp Gln Ser
85 90 95
Ser Gly Ser Leu Gly Leu Gln Cys Leu Xaa Arg Leu Leu Val Gln Xaa
100 105 110

Gly

836

<210> 872
 <211> 71
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (30)
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<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

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 <222> (67)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 872
 Gly Ala Met Gln Glu Glu Leu Gln Trp Pro Phe Pro Ser Pro Gly Tyr
 1 5 10 15
 Leu Leu Tyr Ser Thr Gly His Arg Ala Gln Trp Arg Arg Xaa Glu Trp
 20 25 30
 Arg Ser Xaa Asp Val Met Asn Tyr Phe Ala Trp Glu Arg Asn Pro Ser
 35 40 45
 Thr Ile Ser Ser Pro Gly His Cys Ala Ser Leu Ser Arg Ser Thr Ala
 50 55 60
 Phe Leu Xaa Val Glu Arg Leu
 65 70

<210> 873
 <211> 79
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (45)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (79)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 873
Ser Arg Gly Ser Asp Pro Phe Leu Glu Tyr Asn Asn Tyr Gly Cys Tyr
1 5 10 15
Cys Gly Leu Gly Gly Ser Ser Thr Pro Val Asp Glu Leu Asp Lys Cys
20 25 30
Cys Gln Thr His Asp Asn Cys Tyr Asp Gln Ala Lys Xaa Leu Asp Ser
35 40 45
Cys Xaa Phe Leu Leu Asp Asn Pro Tyr Thr His Thr Tyr Ser Tyr Ser
50 55 60
Cys Ser Gly Ser Ala Ile Thr Cys Tyr His Gln Lys Gln Xaa Xaa
65 70 75

<210> 874
<211> 41
<212> PRT
<213> Homo sapiens

<220>
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<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

838

<400> 874

Arg Ser Gln Glu Tyr Xaa Arg Xaa Pro Ala Ala Arg Ser Ser Xaa Thr
1 5 10 15
Leu Trp Arg Ile Arg Thr Arg Leu Ser Leu Cys Arg Gly Pro Arg Ala
20 25 30
Ala Ala Ala Ala Leu Pro Pro Ala Cys
35 40

<210> 875

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 875

Gln Ser Pro Glu Ser Pro Arg Arg Val Gln Leu Gly Arg Phe Asp Arg
1 5 10 15
Arg Arg Glu Pro Asp Thr Asp Arg Ser Trp Arg Pro Phe Ser Leu Ser
20 25 30
Glu Cys Cys Ser Cys His Cys Gly His Gly Arg Tyr Pro Val Pro Val
35 40 45
Glu Val His Gly Xaa Xaa Thr Gly Arg Lys Leu Ala Lys Lys Ala Val
50 55 60

<210> 876

<211> 97

<212> PRT

<213> Homo sapiens

<400> 876

839

Ser Asp Arg Pro Thr Met Ala Pro Gly Val Ala Arg Gly Pro Thr Pro
 1 5 10 15
 Tyr Trp Arg Leu Arg Leu Gly Gly Ala Ala Leu Leu Leu Leu Leu Ile
 20 25 30
 Pro Val Ala Ala Ala Gln Glu Pro Pro Gly Ala Ala Cys Ser Gln Asn
 35 40 45
 Thr Asn Lys Thr Cys Glu Glu Cys Leu Lys Asn Val Ser Cys Leu Trp
 50 55 60
 Cys Asn Thr Asn Lys Ala Cys Leu Asp Tyr Pro Val Thr Ser Val Leu
 65 70 75 80
 Pro Pro Ala Ser Leu Cys Lys Leu Ser Ser Ala Arg Trp Gly Val Cys
 85 90 95
 Gly

<210> 877

<211> 54

<212> PRT

<213> Homo sapiens

<220>

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<222> (3)

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<220>

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<222> (38)

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<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 877

Ala	Lys	Xaa	Arg	Xaa	Pro	Arg	Gln	Ser	Cys	Leu	Ile	His	Glu	Ser	Xaa
1				5					10					15	

Cys	Pro	Glu	Gly	Thr	Asn	Ala	Tyr	Arg	Ser	Tyr	Xaa	Tyr	Tyr	Phe	Asn
			20					25						30	

Glu	Asp	Pro	Glu	Thr	Xaa	Val	Asp	Ala	Arg	Ser	Leu	Leu	Pro	Glu	His
			35					40						45	

Glu	Phe	Xaa	Xaa	Pro	Gly
					50

<210> 878

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 878

His	Tyr	His	Leu	Leu	Phe	Tyr	Ser	Tyr	Asn	Asp	Tyr	Val	Arg	Glu	Phe
1				5					10					15	

His	Asn	Met	Gly	Pro	Pro	Pro	Pro	Trp	Gln	Gly	Met	Pro	Pro	Tyr	Pro
			20					25						30	

Gly	Met	Glu	Gln	Pro	Pro	His	His	Pro	Tyr	Tyr	Gln	His	His	Ala	Pro
			35					40						45	

Pro Pro Gln Ala His Pro Pro Tyr Ser Gly His His Pro Val Pro Xaa
50 55 60

Glu Ala Arg Xaa Arg Asp Lys Arg Ile Ser
65 70

<210> 879

<211> 138

<212> PRT

<213> Homo sapiens

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<222> (83)

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<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (111)

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<222> (113)

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<222> (115)

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<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 879

Asn	Ser	Ala	Arg	Gly	Glu	Leu	Ala	Phe	Leu	His	Thr	Ser	His	Cys	Leu
1				5					10					15	

Ala	Ser	Gly	Glu	Val	Met	Ile	Ser	Ser	Leu	Gly	Asp	Val	Lys	Gly	Asn
			20					25					30		

Gly	Lys	Gly	Gly	Phe	Val	Leu	Leu	Asp	Gly	Glu	Thr	Phe	Glu	Val	Lys
	35						40					45			

Gly	Thr	Trp	Glu	Arg	Pro	Gly	Gly	Ala	Ala	Pro	Leu	Gly	Tyr	Asp	Phe
	50					55					60				

Trp	Tyr	Gln	Pro	Arg	His	Asn	Val	Met	Ile	Ser	Thr	Glu	Trp	Ala	Ala
65					70					75				80	

Pro	Asn	Xaa	Leu	Arg	Asp	Gly	Phe	Asn	Pro	Ala	Asp	Val	Glu	Ala	Gly
			85						90					95	

Glu	Asn	Pro	Pro	Met	Xaa	Gln	Gln	Glu	Pro	Xaa	Gly	Leu	His	Xaa	Leu
			100					105					110		

Xaa	Phe	Xaa	Val	Pro	Asn	Leu	Ser	Thr	Pro	Thr	Ile	Xaa	Leu	Xaa	Ile
	115					120						125			

Gly	Pro	Arg	Xaa	Leu	Lys	Xaa	Gly	Trp	Pro
	130					135			

<210> 880

<211> 107

<212> PRT

<213> Homo sapiens

<400> 880

Gln	Arg	Asp	Phe	Phe	Arg	Thr	Ser	Lys	Lys	Met	Tyr	Pro	His	Arg	Pro
1				5					10					15	

843

Val Leu Met Val Ile Ser His Ala Ala Pro His Gly Pro Glu Asp Ser
 20 25 30
 Ala Pro Gln Tyr Ser Arg Leu Phe Pro Asn Ala Ser Gln His Ile Thr
 35 40 45
 Pro Ser Tyr Asn Tyr Ala Pro Asn Pro Asp Lys His Trp Ile Met Arg
 50 55 60
 Tyr Thr Gly Pro Met Lys Pro Ile His Met Glu Phe Thr Asn Met Leu
 65 70 75 80
 Gln Arg Lys Ala Cys Arg Pro Ser Cys Arg Trp Thr Thr Pro Trp Arg
 85 90 95
 Arg Phe Thr Thr Cys Trp Leu Arg Arg Ala Ser
 100 105

<210> 881

<211> 122

<212> PRT

<213> Homo sapiens

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<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 881

Met Ile Phe Asn Ala Glu Arg Val Gly Gly Leu Glu Glu Glu Arg Glu
 1 5 10 15
 Ser Val Gly Pro Leu Arg Glu Asp Phe Ser Leu Ser Ser Ser Ala Leu
 20 25 30
 Ile Gly Leu Leu Val Ile Ala Val Ala Ile Ala Thr Val Ile Val Ile
 35 40 45
 Ser Leu Val Met Leu Arg Lys Xaa Ala Val Trp His His Gln Pro Arg
 50 55 60
 Asp Arg Gly Gly Leu Ile Gln Cys Ser Pro Gln Lys Asn Val Pro Glu
 65 70 75 80

844

Gln Asp Ala Glu Pro Cys Tyr Xaa Asn Pro Leu Pro Ile Leu Asp Arg
85 90 95

Ser Ile Arg Leu Gln Asp Ala His Leu Arg Gly Ser Val Ala Glu Ile
100 105 110

His Ile Arg Ser Met Gln His Thr Val Gln
115 120

<210> 882
<211> 26
<212> PRT
<213> Homo sapiens

<220>
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<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 882
Phe Xaa Asn Gly His Gln Glu Lys Asn Xaa Phe Leu Ala Xaa Gln Gly
1 5 10 15

Pro Lys Glu Glu Thr Val Xaa Asp Phe Trp
20 25

<210> 883
<211> 34
<212> PRT
<213> Homo sapiens

845

<400> 883

Gln Ala Arg His Leu Leu Gly Gln Arg Val Leu Val Leu Glu Leu
1 5 10 15

Ser Cys Glu Gly Asp Asp Glu Asp Thr Ala Phe Pro Thr Leu His Tyr
20 25 30

Glu Leu

<210> 884

<211> 35

<212> PRT

<213> Homo sapiens

<220>

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<222> (26)

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<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 884

Gly Pro Ala Ser Pro His Ala Thr Leu Gly Pro Xaa Pro Cys Arg Val
1 5 10 15

Leu Phe Ser Met Ser Phe Ile Pro Xaa Xaa Glu Xaa Phe Arg Leu Pro
20 25 30

His Pro Gln

35

<210> 885

<211> 73

<212> PRT
 <213> Homo sapiens

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<220>
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 <222> (66)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 885
 Xaa Pro Xaa Met Ala Ser Val Val Leu Pro Ser Gly Ser Gln Cys Ala
 1 5 10 15
 Ala Ala Xaa Arg Arg Arg Arg Ser Arg Ala Pro Ala Pro Ala Ser Ala
 20 25 30
 Val Ala Leu Leu Arg Arg Gly Thr Glu Ser Pro Gln Val Met Gly Gln
 35 40 45
 Asn Leu Phe Thr Lys Arg Arg Asp Ser Asn Arg Gly Arg Gly Cys Glu
 50 55 60
 Pro Xaa Ser Cys Gln Val Asn Glu Glu
 65 70

<210> 886
 <211> 108
 <212> PRT
 <213> Homo sapiens

<220>
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<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (99)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 886
Asp Ser Pro Met Phe Xaa Trp Ser Glu Pro Pro Ser Cys Ser His Leu
1 5 10 15
His Cys Pro Ser Ala Leu Phe Val Pro Cys Xaa Xaa Lys Xaa Gly Ala
20 25 30

Gln Met Val Arg Pro Glu Xaa Ala Ala Gly Gly Ile Trp Asp Thr Pro
35 40 45

Val Gly Thr Gly Cys Xaa Pro Gly Leu Ile Pro Ser Phe His His Asp
50 55 60

Arg Asn Ala Leu Xaa Lys Ala Gly Leu Leu Gly Ala Cys Ser Pro Arg
65 70 75 80

Pro Pro Gln Arg Glu Pro Arg Cys Phe Pro Xaa Pro His Pro Phe Pro
85 90 95

Xaa His Xaa Leu Thr Val Leu Leu Ala Gln Pro Glu
100 105

<210> 887

<211> 77

<212> PRT

<213> Homo sapiens

<220>

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<222> (9)

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<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (15)

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<220>

<221> SITE

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<220>

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<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids.

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<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<400> 887

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Gly	Gln	Ser	Thr	Xaa	Glu	Pro	Asp	Ser	Arg	Thr	Pro	Gly	Lys	His	Val
			20					25					30		

Gln	Met	Gln	Leu	Ser	Leu	Xaa	Xaa	Thr	Asn	Asn	Ile	Asp	Pro	Val	Gly
		35					40					45			

Lys	Asn	Pro	Asn	Glu	Thr	Gln	Gly	Gly	His	Xaa	Gly	Gly	His	Leu	Gly
	50					55					60				

Xaa	Xaa	Ser	Asp	Gly	Xaa	Ala	Leu	Gly	Ala	Xaa	Thr	Pro
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<400> 888

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Leu Gly Asp Cys Ala Trp Arg Trp Arg Arg Trp Arg Pro Leu Ala Ala
20 25 30

Gly Arg Ala Gln His Leu Xaa His Ala Arg Cys Glu Leu Xaa Xaa Ala
35 40 45

Glu Pro Gly Leu Arg Xaa
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<400> 889

Thr Ala Ser Ser Pro Gln Pro Ile Leu Leu Pro Leu Gln Pro Ala Glu
1 5 10 15

Glu Leu Ser Trp Ala Ala Pro Ile Ser Pro Asn Lys Val Tyr Ile Phe
20 25 30

Cys Val Asp Ala Arg Pro Thr Ser Phe Pro Gly Phe Val Ala Val Arg
35 40 45

Arg Lys Gly His Glu Phe
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Val Thr Gly Leu Asp His Ile Leu Asp Pro Glu Glu Gly Asp Thr Leu
1 5 10 15

852

Ala His Ala Xaa Gly Xaa Xaa Gly Arg Arg Ser Lys Val Xaa Ile Phe
 20 25 30

Phe Asp Gly Ser Arg Ser Ile Ser Leu Arg Lys Ser Lys Ile Asn Phe
 35 40 45

Xaa Ser Arg Val Xaa Xaa Trp Phe
 50 55

<210> 891
 <211> 57
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<400> 891
 Ser Leu Val Pro Cys Pro Gln Ala Arg Trp Glu Ser Leu Gly Ser Ala
 1 5 10 15

Tyr Ser Gly Ser Pro Leu Gly Ser Lys Gln Gly Gly Leu Ser Leu Pro
 20 25 30

Glu Ser Asp Gly Arg Val Gly Gly Leu Gly His Leu Pro Val Pro Phe
 35 40 45

Pro Lys Met Pro Ser Ser Val Pro Ala
 50 55

<210> 892
 <211> 73
 <212> PRT
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<400> 892
 Ser Thr His Ala Ser Val Cys Val Ala Tyr Ile Val Ala Gly Ala Trp
 1 5 10 15

Leu Leu Ile Arg Ala Cys Thr Ser Phe Phe Asp Asn Lys Arg Val Lys
 20 25 30

Ile Ala Pro Arg Pro Gly Glu Arg Glu Arg Val Ser Phe Tyr Ile Tyr
 35 40 45

Ser Phe Gln Ala Asn Phe Gly Glu Ala Leu Thr Phe Leu Arg Gly Gly
 50 55 60

Gly Gly Glu Val Lys Ser Cys Asp Leu

65 70

<210> 893
<211> 44
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<400> 893
Val Leu Gln Cys Pro Thr His Lys Asn Gly Lys His Gly Ser Leu Arg
1 5 10 15
Leu Leu Gln Ser Thr Leu Leu Gln Ser Lys Ser Tyr Ser Leu Arg Lys
20 25 30
Cys Leu Leu Pro Phe Leu Phe Ser Ser Leu Leu Val
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<210> 894
<211> 56
<212> PRT
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<400> 894
Ile Met Pro Ser Ser Ile Leu Ala Leu Gly Pro Thr Arg Pro Ser Ser
1 5 10 15
Asn Trp Glu Met Gly Arg Ser Lys Ala Gly Leu Met Leu Phe Arg Val
20 25 30
Ser Ser Tyr Leu Glu Leu Thr Arg Pro Thr Pro Val Ala Ile Pro Glu
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Lys Ser Gln Leu Pro Gly Cys Leu
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Xaa Ser Lys Pro Leu Pro Leu Arg Xaa Pro Xaa Xaa Arg Leu Leu Ile
1 5 10 15
Xaa Asp Lys Xaa Xaa Leu Xaa Xaa His Arg Phe Xaa Ile Leu Lys Gln
20 25 30

856

Met Xaa His Lys Val Arg Asp Ser Xaa Gly Xaa Ile Xaa Asp Lys Thr
35 40 45

Xaa Leu Asp Met Arg Val Tyr Gly Leu Arg Ala Xaa Val Leu Gly Leu
50 55 60

Glu Gln Gln Ile Ala Leu Met Cys Lys Pro Phe Asn Asn Ser Leu Phe
65 70 75 80

Arg Arg His Phe Phe Xaa Ala Lys Xaa Ser Trp Met Gln Xaa Xaa
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<210> 896

<211> 148

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Gly Cys Gln Xaa Leu Xaa Trp Thr Ser Trp Ser Xaa Arg Ser Xaa Arg

1

5

10

15

Val Cys Gln Ala His Leu Val Lys Lys Val Lys Met Gly Met Leu Val
 20 25 30
 Pro Trp Gly His Leu Val Leu Gln Xaa Gln Glu Val Leu Lys Val Pro
 35 40 45
 Met Glu Leu Met Asp His Lys Asp Pro Gln Gly Leu Phe Gly Ser Val
 50 55 60
 Gly Gly Val Gly Glu Lys Gly Glu Pro Gly Val Ser Arg Glu Pro Arg
 65 70 75 80
 Ala Ser Trp Gly Lys Gln Val Leu Gly Gly Pro Gln Ser Xaa Xaa Glu
 85 90 95
 Val Glu Lys Gly Gly Xaa Xaa Xaa Ser Thr Xaa Xaa Xaa Leu Gly Thr
 100 105 110
 Ser Gln Xaa Xaa Xaa Gly Xaa Thr Arg Xaa Cys Phe Gly Pro Lys Gly
 115 120 125
 Xaa Pro Gly Xaa Phe Xaa Val Phe Xaa Xaa Xaa Ser Gly Xaa Phe Gly
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 Gly Phe Trp Xaa
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<210> 897

<211> 61

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1 5 10 15
Arg Xaa Phe Pro Gly Ser Pro Gly Xaa Xaa Gly Leu Pro Gly Ser Met
20 25 30
Gly Ser Pro Gly Thr Pro Ser Xaa Asp His Gly Xaa Thr Xaa Gly Pro
35 40 45
Gly Ile Val Gln Thr Ile Asp Asp Xaa His Cys Xaa Phe
50 55 60

<210> 898
<211> 37
<212> PRT

<213> Homo sapiens

<400> 898

Glu Gln Leu Lys Glu His Thr Arg Leu Cys Ser Lys Ile Val Gly Arg
1 5 10 15

Phe Ile Gly Arg Gly Asp Lys Pro Thr Glu Pro Gly Asp Ser Trp Leu
20 25 30

Ser Lys Ile Glu Ser
35

<210> 899

<211> 50

<212> PRT

<213> Homo sapiens

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<400> 899

Asp Pro Gln Leu Ala Gly Gly Gln Ile Ser Arg Val Gly Gln Arg Gly
1 5 10 15

Lys Asn Ile Ala Ser Val Gly Asp Ala Val Gln Leu Pro Lys Gly Val
20 25 30

Arg Asn Gly Asn Ala Glu Xaa Trp Glu Lys Gly Ser Gly Gly Gly Arg
35 40 45

Arg Gly
50

<210> 900

<211> 53

<212> PRT

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Ile Ile Leu Ile Xaa Xaa Ser Leu Ser Lys Xaa Leu Gly Met Phe Ser
1 5 10 15
Val Ile Gly Xaa Arg Tyr Gln Phe Pro Xaa Leu Ser Phe Asp Ile Gln
20 25 30
Tyr Leu Ile Xaa Thr Leu His Xaa Trp Ser Ser Lys Xaa Xaa Leu Gln

35 40 45

Xaa Cys Gln Ile Ile
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<210> 901
<211> 53
<212> PRT
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1 5 10 15
Tyr Asn Xaa Ala His His Arg Pro Ser Pro Ala Gln Pro Ile Lys Asp
20 25 30
Pro Gly Pro Val Pro Ser Cys Ile His Val Cys Leu Pro Gly Ser Gly
35 40 45
Glu Arg Arg Gly Cys
50

<210> 902
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Ser	Lys	Lys	Met	Val	Phe	Leu	Pro	Leu	Lys	Trp	Ser	Leu	Ala	Thr	Met
1					5				10				15		

Ser	Phe	Leu	Leu	Ser	Ser	Leu	Leu	Ala	Leu	Leu	Thr	Val	Ser	Thr	Pro
		20						25					30		

Ser	Trp	Cys	Gln	Xaa	Thr	Glu	Ala	Ser	Pro	Lys	Xaa	Xaa	Asp	Gly	Thr
		35					40					45			

Pro	Phe	Pro	Trp	Asn	Lys	Ile	Arg	Leu	Pro	Glu	Tyr	Val	Ile	Pro	Val
	50					55					60				

Gln	Tyr	Lys	Ser	Leu	Asp	Xaa	Cys	Lys	Pro	Tyr	Xaa	Ala	Asp	Phe	Trp
65					70					75				80	

Gly Asn Xaa

<210> 903

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<213> Homo sapiens

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Gly Thr Ser Leu Lys Phe Phe Phe Leu Phe Lys Ile Leu Pro Gly Tyr
 1 5 10 15

Val Phe Ile Leu Ile Lys Phe Gly Cys Ser Xaa Ile Ser Leu Cys Lys
 20 25 30

Xaa Thr Leu Ile Phe Ser Pro Lys Trp Asn Asp Glu Arg Phe Phe Ser
 35 40 45

Pro Leu Pro Tyr Ala Pro Leu Lys Ser Tyr Met Ser Leu Tyr Tyr Leu
 50 55 60

Ala Ile Met Gly Ile Phe Ile Ser Thr Val Val Leu Phe Trp Ser Ala
 65 70 75 80

Pro Tyr Pro Val Asn Ile Ser Ile Val Leu Gln Xaa Leu Cys Ser Leu
 85 90 95

Phe Cys Gln Gly Ser Xaa Val Xaa
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<210> 904
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 1 5 10 15
 Phe Phe Phe Phe Xaa Phe Xaa Xaa
 20

<210> 905
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 905
 Gly Asn Lys Thr Leu His Leu Ile Pro Ile Thr Ser Ser Ile Ile Phe
 1 5 10 15
 Gln Leu Ile Ile Lys Ser Val Leu Gly Asn Thr Leu Arg Thr Phe Met
 20 25 30
 Met Gln Gln Met Leu Thr Lys Gly Leu Val Gly Arg Tyr Ser Gly Asn
 35 40 45
 Val His
 50

<210> 906
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 <212> PRT

<213> Homo sapiens

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<400> 906

Glu	Ile	Trp	Ser	Ser	Ile	Leu	Leu	Arg	Gln	Gln	Pro	Xaa	Glu	Ser	Asn
1				5					10					15	

Leu	Ser	Leu	Pro	Ala	Asp	Asp	Xaa	Pro	Ser	Met	Asn	Arg	Leu	Gly	Xaa
			20					25					30		

Gln	Gln	Val	Pro	Ser	Phe	Met	Glu	Leu	Ser	Leu	Lys	Asp	Pro	Xaa	Val
		35					40					45			

Leu	Lys	Leu	Xaa	Gly	Arg	Xaa
	50				55	

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Lys Arg Xaa Arg Pro Asn Leu Phe Xaa Lys Val Lys Gly Gly Phe Xaa
1 5 10 15

Pro Lys Gly Pro Ser Arg Glu Lys Asn Xaa Pro Gly Pro Gly Lys Lys
20 25 30

Xaa Leu Gly Xaa Lys Xaa Arg Val Xaa Gly Ile Lys Arg Gly Xaa Xaa
35 40 45

Leu Thr Phe Pro Pro Gly Phe Phe Pro Leu Gly Phe Ser Gln Lys Asn
50 55 60

Phe Phe Pro Lys Gly Xaa Pro Lys Lys Ile Phe
65 70 75

<210> 908

<211> 28

<212> PRT

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<400> 908

Phe Phe Phe Gln Lys Tyr Val His Ile Xaa Ile Met Pro Lys Val Pro
1 5 10 15

Pro Gly Xaa Val Lys Ala Arg Xaa Pro Gly Xaa Trp
 20 25

<210> 909

<211> 141

<212> PRT

<213> Homo sapiens

<400> 909

Cys Leu Cys Pro Ala Pro Arg Gly Gly Ala Tyr Arg Gly Arg Gln Ala
 1 5 10 15

Ser Leu Ser Cys Gly Gly Leu His Pro Val Arg Ala Ser Trp Leu Leu
 20 25 30

Cys Leu Pro Lys Gln Ala Trp Ala Met Val Gly Ala Pro Pro Thr Ala
 35 40 45

Ser Leu Pro Pro Cys Ser Leu Ile Ser Asp Cys Cys Ala Ser Asn Gln
 50 55 60

Arg Asp Ser Met Gly Val Gly Pro Ser Glu Pro Gly Ala Gly Tyr Asn
 65 70 75 80

Leu Leu Val His His Ser Leu Ser Pro Ser Glu Lys His Ser Ile Arg
 85 90 95

Val Gly Val Thr Gln Phe Ser Arg Cys Arg Leu Ser Pro Leu Ser Leu
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Thr Arg Lys Gly Thr Ser Leu Thr Pro Cys Ala Ser Arg Val Lys Gln
 115 120 125

Cys Leu Asn Leu Leu Arg Leu Thr His Gly Gly Leu His
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<210> 910

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<212> PRT

<213> Homo sapiens

<400> 910

Leu Gln Cys Pro Ile Asn Gln Leu Gln Gln Leu Pro Asn Cys Asp Gln
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Ser Leu His Thr Cys Thr Gly Phe Pro Gln Tyr Leu Trp Ala Leu Val

871

20 25 30
 Leu Gly Pro Leu Met Asp Thr Asn Ile Tyr Gly Cys Ser Ser Pro
 35 40 45

 <210> 911
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 Gln Ser Ser Ala Ser Ser Ala Asp Ser Cys His Ser Leu Ala Gly Gly
 20 25 30

 Gly Pro Leu Val Phe His Thr Arg Val Lys Trp Ser Trp Cys Ser Leu
 35 40 45

 Ser Gly Val Leu Gly Trp Gly Ile Leu Cys His Xaa Gln Glu Arg Leu
 50 55 60

 His Leu Pro Val Ile Ser Pro Ala Pro Ser Val Pro Arg Gly Leu Pro
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 Gly Pro Gln Pro

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Gly	Trp	Leu	Ala	Gly	Glu	Val	Leu	Pro	Pro	Val	Xaa	Pro	Pro	Gly	Pro
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Xaa	Ser	Thr	Ser	Leu	Arg	Lys	Thr	Thr	Xaa	Pro	Xaa	Asp	Pro
			20				25					30	

<210> 913

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<400> 913

Val	Ser	Thr	Thr	Glu	Gly	Tyr	Gly	Cys	Val	Glu	Asp	Asp	Arg	Arg	Gly
1				5				10						15	

Leu	Leu	Ser	Asn	Cys	Leu	Thr	Ala	Cys	Ser	Ser	His	Trp	Cys	Glu	Leu
			20				25						30		

Gln	His	Pro	Leu	Cys	Ser	Lys	Trp	Thr	Pro	Thr	Ala	Leu	Ala	Pro	Leu
			35				40					45			

873

Val Ala Pro Ala Arg Ala Pro Ala Pro Ala Ser Ala Xaa Ser Ala Asn
 50 55 60
 Ala Pro Pro Ala Arg Arg Ala Ala Val Pro Ala Ala Pro Trp Ala Val
 65 70 75 80
 Pro Ser Val Pro Arg Ala Ala Ser Ala Lys Gly His Xaa Lys Asn Ala
 85 90 95
 Ala Ala Val Pro Asp Val Gly Thr Ala Leu Leu Pro Asp Val Asn Arg
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 115 120 125

<210> 914

<211> 59

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 Ser Val Leu Pro Phe Val Ser Leu Leu Ile Leu Phe Leu Gly Gly Gly
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 Xaa Phe Ala Phe Xaa Ser Ser Trp His Asn Phe His Phe Ile Leu Leu
 35 40 45
 Ser Val Tyr Xaa Asn Phe Pro Leu Ser Arg Leu
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 Thr Gln Leu Arg Gly Phe Gly Ile Leu Trp Pro His Cys Glu Glu Ile
 35 40 45
 Gly Ser Gly Ser Glu Ala Thr Gly Arg Leu Pro Leu Pro Glu Ile Trp
 50 55 60
 Ser Glu Glu Xaa Pro Pro Ser Ser His His Ser Lys Glu Val His Glu
 65 70 75 80
 Asn Xaa Ser Val Ile Pro Phe Asn Xaa Val Asp Ile Thr Phe Ile
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 <211> 62
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Ile	Trp	Arg	Ser	Asp	Phe	Val	Ala	Lys	Ile	Leu	Pro	Arg	Trp	Cys	Trp
1				5					10					15	

Val	Leu	Leu	Val	Ala	Ser	Cys	Gln	Glu	Ala	Asp	Asn	Ala	Gly	Ala	Ser
			20					25					30		

Leu	Leu	Val	Met	Leu	Arg	Leu	Leu	Gly	Gly	Phe	Gly	Val	Leu	Gly	Phe
		35					40					45			

Asn	His	Ser	Leu	Gln	Xaa	Ser	Thr	Phe	Tyr	Leu	Thr	Xaa	Xaa
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<211> 36

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<213> Homo sapiens

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Glu	Lys	Thr	Arg	Gln	Cys	Thr	Leu	Pro	Met	Xaa	Val	Ser	His	Asn	Thr
1				5					10					15	

Asp	Val	Thr	Phe	Ile	Cys	Phe	Ile	Ser	His	Leu	Val	Ser	Lys	Xaa	Phe
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876

20 25 30

Gly Gly Arg Gly
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<210> 918
<211> 74
<212> PRT
<213> Homo sapiens

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His Glu Ser Pro Glu Arg Gly Arg Pro His Glu Arg Ala Arg Ser Arg
1 5 10 15
Glu Arg Asp Leu Ser Arg Asp Arg Ser Arg Gly Arg Ser Leu Glu Arg
20 25 30
Gly Leu Asp Gln Asp His Ala Arg Thr Arg Asp Arg Ser Arg Gly Arg
35 40 45
Ser Leu Glu Arg Gly Leu Asp His Asp Phe Gly Pro Ser Arg Asp Arg
50 55 60
Asp Arg Asp Arg Ser Arg Gly Pro Glu His
65 70

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<213> Homo sapiens

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tctcccggac tcctgaggtc acatgcgtgg tggtggacgt aagccacgaa gacctgagg 180
tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg 240
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ggctgaatgg caaggagtac aagtgcgaag tctccaacaa agccctccca acccccatcg 360
agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc 420
catcccggga tgagctgacc aagaaccagg tcagcctgac ctgcctggtc aaaggcttct 480
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ccacgcctcc cgtgctggac tccgacggct ccttcttctt ctacagcaag ctcaccgtgg 600
acaagagcag gtaggcagcag gggaaactgt tctcatgtct cgtgatgcat gaggctctgc 660
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877

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 cccgaaatat ctgccatctc aattag 86

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<400> 922
 gcggcaagct ttttgcaaag cctaggc 27

<210> 923
 <211> 271
 <212> DNA
 <213> Homo sapiens

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 gccctaact ccgcccagtt ccgcccattc tccgccccat ggctgactaa ttttttttat 180
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<210> 924
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<212> DNA

<213> Homo sapiens

<400> 924

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32

<210> 925

<211> 31

<212> DNA

<213> Homo sapiens

<400> 925

gcgaagcttc gcgactcccc ggatccgcct c

31

<210> 926

<211> 12

<212> DNA

<213> Homo sapiens

<400> 926

ggggactttc cc

12

<210> 927

<211> 73

<212> DNA

<213> Homo sapiens

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ccatctcaat tag 73

<210> 928

<211> 256

<212> DNA

<213> Homo sapiens

<400> 928

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cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga 180
ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg 240
cttttgcaaa aagctt 256

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US00/05989

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12N 15/12, 1/21, 15/63

US CL : 536/23.5; 435/252.3, 320.1

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 536/23.5; 435/252.3, 320.1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Issued US Patents and Genbank sequence databases

search terms: SEQ ID NOS: 1-10

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Database Genbank on STN. NCI-CGAP. 'National Cancer Institute, Cancer Genome Anatomy Project, Tumor Gene Index'. Accession No. AI302271, Posted 01 February 1999. (Relevant to SEQ ID NO:1)	1, 2, 5-10
X	Database Genbank on STN, GAO et al. 'Non-catalytic beta- and gamma-subunit isoforms of the 5'-AMP-activated protein kinase'. Accession No. U42412, Posted 30 May 1996. (Relevant to SEQ ID NO:2)	1, 2, 5-10

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
A document defining the general state of the art which is not considered to be of particular relevance	*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
E earlier document published on or after the international filing date	*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	*A* document member of the same patent family
O document referring to an oral disclosure, use, exhibition or other means	
P document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

07 MAY 2000

Date of mailing of the international search report

19 JUL 2000

Name and mailing address of the ISA/US
Commissioner of Patents and Trademarks
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JOHN S. BRUSCA

Telephone No. (703) 308-0196

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US00/05989

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Database Genbank on STN. ADAMS et al. 'Initial assessment of human gene diversity and expression patterns based upon 83 million nucleotides of cDNA sequence'. Accession No. AA301420, Posted 18 April 1997. Nature, 377 (6547 suppl), 3-174 (1995). (Relevant to SEQ ID NO:3)	1, 2, 5-10
X	Database Genbank on STN, HILLIER et al. 'WashU-Merck EST Project 1977'. Accession No. AA447503, Posted 04 June 1997. (Relevant to SEQ ID NO:4)	1, 2, 5-10
X	Database Genbank on STN. NCI-CGAP. 'National Cancer Institute, Cancer Genome Anatomy Project Tumor Gene Index'. Accession No. AI090176, Posted 23 October 1998. (Relevant to SEQ ID NO:5)	1, 2, 5-10
X	Database Genbank on STN. ADAMS et al. 'Initial assessment of human gene diversity and expression patterns based upon 83 million nucleotides of cDNA sequence'. Accession No. AA295211. Nature, 377 (6547 suppl), 3-174 (1995), Posted 18 April 1997. (Relevant to SEQ ID NO:6)	1, 2, 5-10
X	Database Genbank on STN, ADAMS et al. 'Initial assessment of human gene diversity and expression patterns based upon 83 million nucleotides of cDNA sequence'. Accession No. AA295847. Nature, 377 (6547 suppl) 3-174 (1995). Posted 18 April 1997. (Relevant to SEQ ID NO:7)	1, 2, 5-10
X	Database Genbank on STN, ADAMS et al. 'Rapid cDNA sequencing (expressed sequence tags) from a directionally cloned human infant brain cDNA library'. Accession No. AA363715, Nature Genet. 4, 373-380 (1993). Posted 21 April 1997. (Relevant to SEQ ID NO:8)	1, 2, 5-10
X	Database Genbank on STN, CHEN et al. 'A transcriptional co-repressor that interacts with nuclear hormone receptors'. Accession No. U37146, Posted 31 October 1995. (Relevant to SEQ ID NO:9)	1, 2, 5-10
X	Database Genbank on STN, NOMURA. Accession No. D80010, Posted 10 July 1997. (Relevant to SEQ ID NO:10)	1, 2, 5-10

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US00/05989

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

Please See Extra Sheet.

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-12, 14, 15, 16, 21, and SEQ ID NO: 1-10

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US00/05989

BOX II. OBSERVATIONS WHERE UNITY OF INVENTION WAS LACKING

This ISA found multiple inventions as follows:

This application contains the following inventions or groups of inventions which are not so linked as to form a single inventive concept under PCT Rule 13.1. In order for all inventions to be searched, the appropriate additional search fees must be paid.

Group I, claim(s) 1-12, 14, 15, 16, and 21, drawn to cDNA, polypeptides, genes, a method of using the cDNA to make host cells comprising the cDNA, and a method of making the polypeptide.

Group II, claim(s) 13, drawn to an antibody specific for the polypeptides of Group I.

Group III, claim(s) 17, drawn to a therapeutic method of using the cDNA or the polypeptide of Group I.

Group IV, claim(s) 18 and 19, drawn to a diagnostic method of using the cDNA or polypeptide of Group I.

Group V, claim(s) 20, drawn to a method of using the polypeptide of Group I to isolate a binding partner.

Group VI, claim(s) 22, drawn to a method of using the cDNA of Group I to identify the activity of the polypeptide encoded by the cDNA.

Group VII, claim 23, drawn to the binding partner made by the method of Group V.

The inventions listed as Groups I-VII do not relate to a single inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: PCT Rule 13.1 and Annex B do not provide for unity of invention between two or more different products or methods of use that share a special technical feature.

In addition, each Group detailed above reads on distinct Groups drawn to multiple SEQ ID Numbers. The sequences are distinct because they are unrelated sequences, and a further lack of unity is applied to each Group. The lack of unity is partially waived and the Applicants must further elect 10 SEQ ID Numbers for examination in the elected Group detailed above.

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